

Origami Omnibus

Paper folding for Everybody



Kunihiko Kasahara

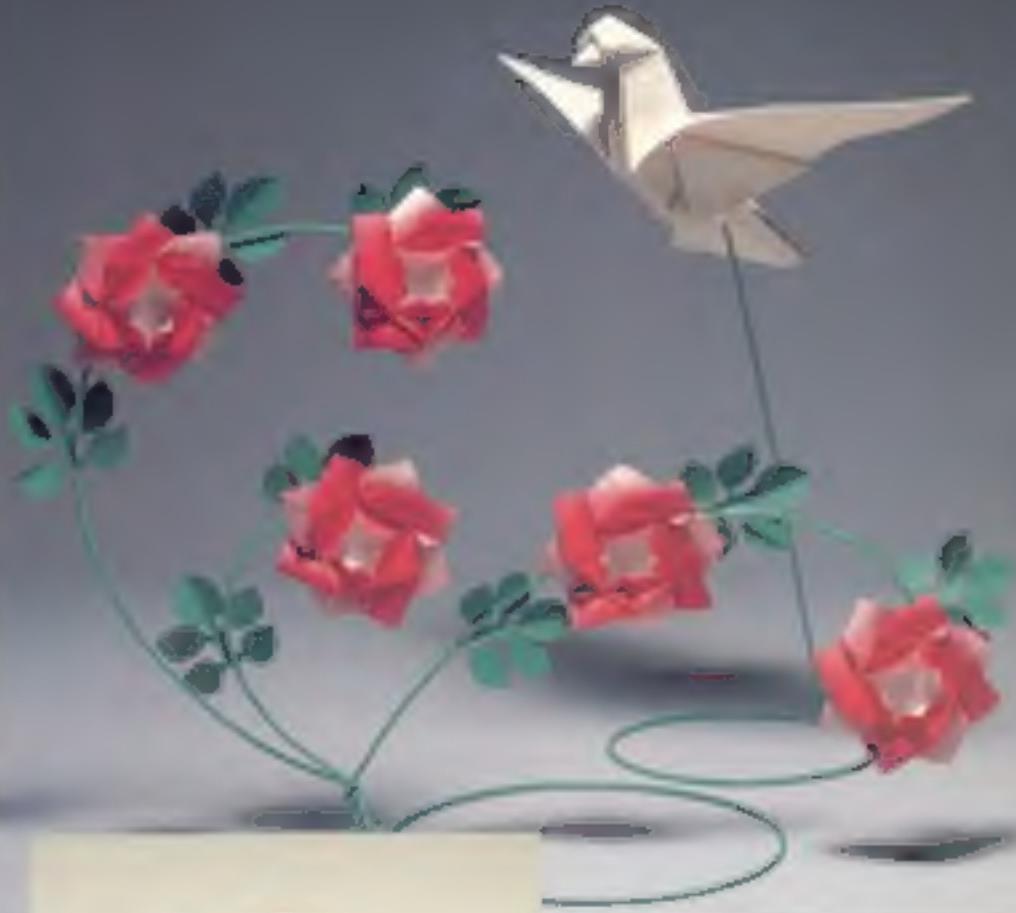
Origami Omnibus

Paper-folding for Everybody

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Japan Publications, Inc.



▲ Dove of Peace (p. 262)
Rose (p. 338)

◀ Panama Box with Four-season Scenery developed one after the other, beginning on the next page





A Paper Wonderland

Boundless fantasy from a single, small sheet of paper. This is the pleasure and the miracle of the unique wonderland.

◀ **Polyhedral Units** (pp. 202–249)
Eyes, Eyebrows, Nose, Mouth, and
Moustache (pp. 226–235)
Lips (Male) (pp. 227)



Find eight small cubes from a single large cube.





The Fun of Geometric Forms

"Tim Day when complete will be a highly valued educational tool in the mathematics classroom. It just around the corner. I am delighted to anticipate its arrival."



- ◀ Multicube Decorative Sphere (p. 29)
Cube with a Fermat Face (p. 66)
Cube with a Panda Face (p. 67)
Rhombicosidodecahedron (p. 211)
Dode (p. 64)
Fox (p. 254)
Fox Mobile (p. 200)

Developing and assembling 3 of the 8 small cubes create a beautiful geometric solid, or polyhedron. The complete development appears on the next page.







These developed polyhedrons are arranged to represent a range of mountains. The remaining 5 comprise seasonal scenes of – counted back from – spring, summer (early and full), autumn, and winter.

Oiseau d'Air (p. 216)

▼ Candle and Candlestick (p. 320)

Angel (p. 304)

Swan (p. 357)

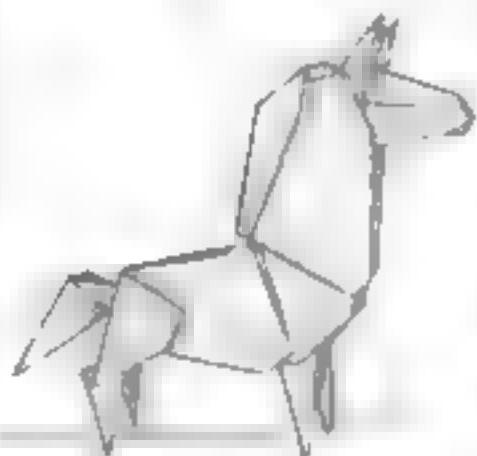


Key Materials

In this scientific age, new materials are constantly being created and marketed. These works make use of extremely popular plastic films and foil papers.

Contents

Chapter 1	Expressions	Factor 2	Quadratic
Question 31		Matrix Y	Task 55



6 minute E + F
EJ

Animal F 21 L 17

2 3 4 5 6 7 8 9

M 1 2 3 4 5 6 7 8 9 10

SP

Y 1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16 17 18

S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

H

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Chapter 4 Starting the
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Chapter 3 Fly Crane

Fly 12

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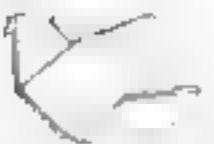
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P

Chapter 5 Beautiful
Predators 199



• $\phi_0 = \pi$
 • $\phi_0 = 0$
 • $\phi_0 = \pi/2$

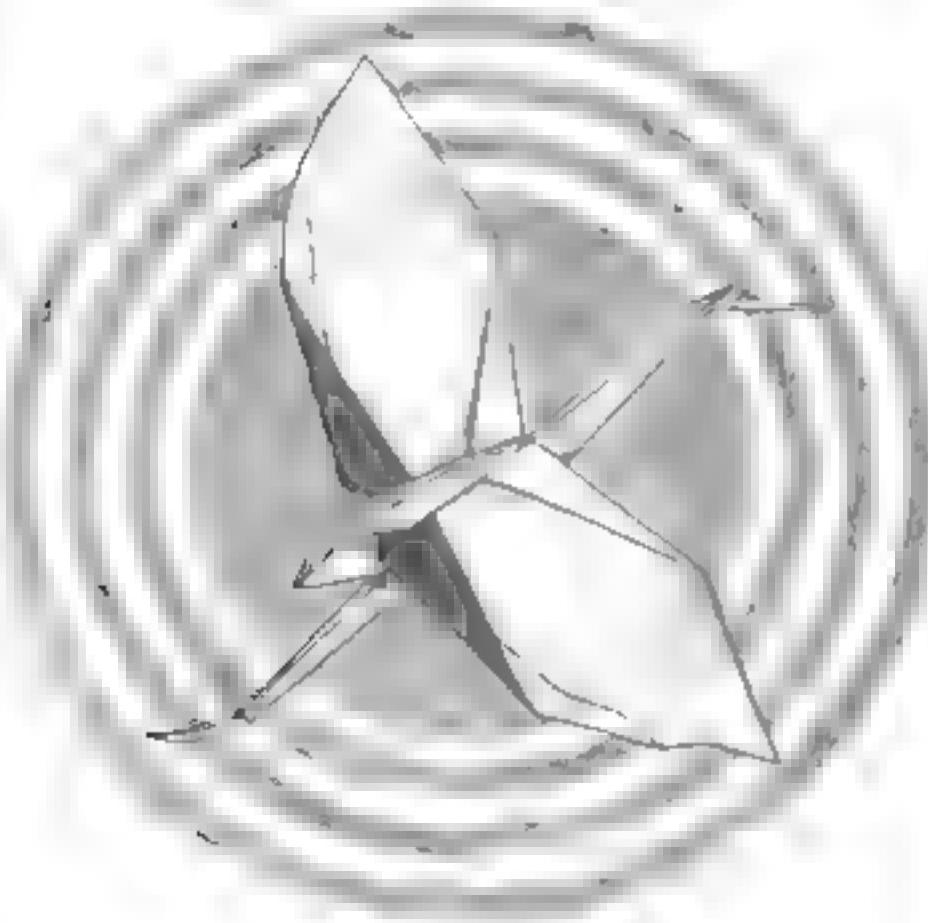
<img alt="Figure 1: Electrophoresis gel showing protein bands for various samples. The lanes are labeled with sample names: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 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Chapter 6 - vivaJr.com
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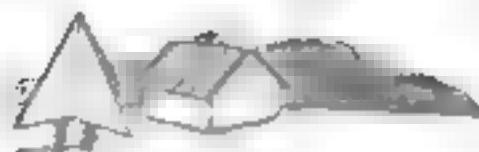


Introduction



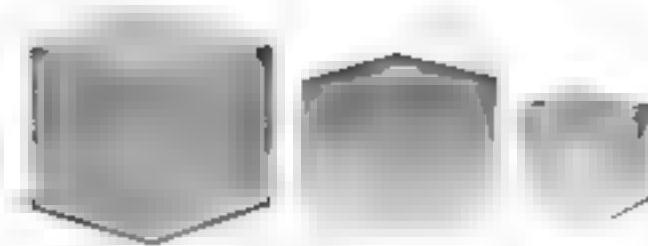
The Future of a New Origami





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Variations ways to fold a square in half



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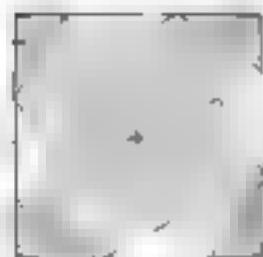
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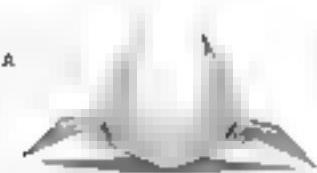
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Digitized by srujanika@gmail.com

Kop-Fushimi *tatō* (variant fold)



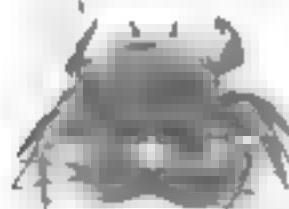
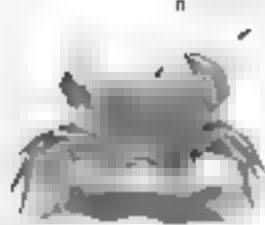


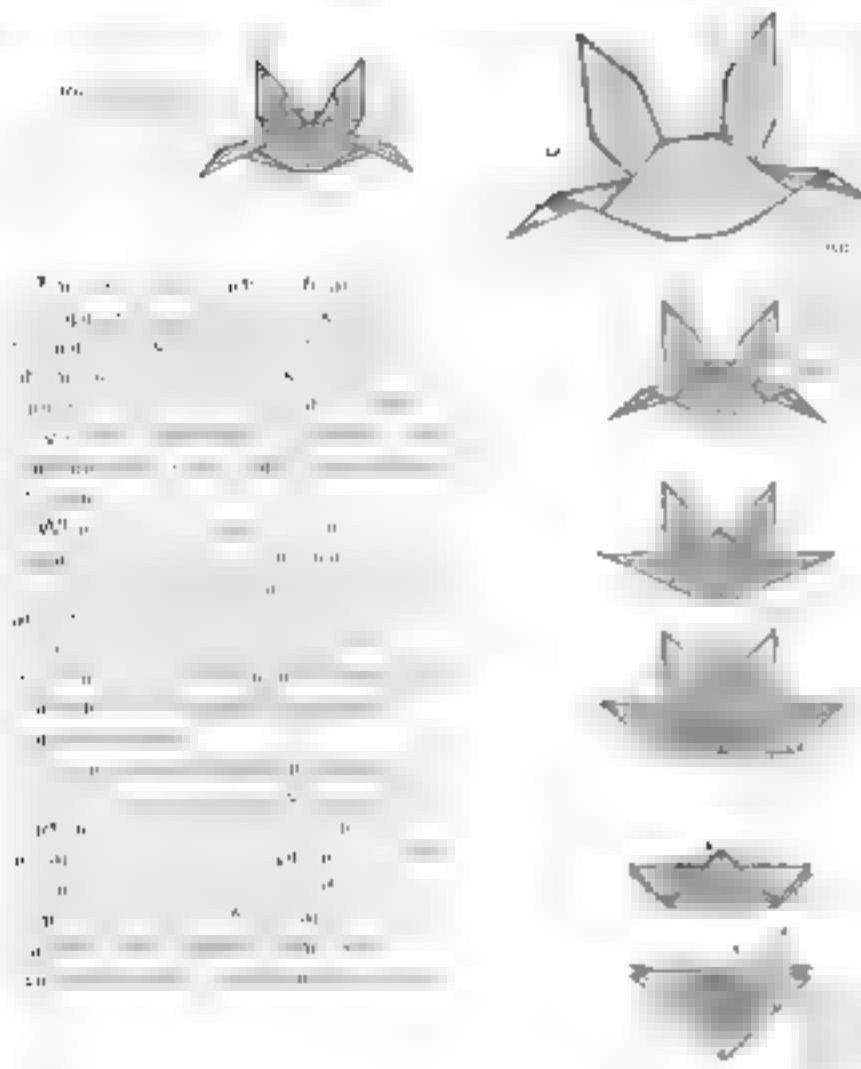
Q. Now, do you know if there was any other evidence presented at the trial which would indicate that the defendant had been involved in the shooting of the victim?

A. No, I do not.

Q. Now, do you know if there was any other evidence presented at the trial which would indicate that the defendant had been involved in the shooting of the victim?

A. No, I do not.





€ crab



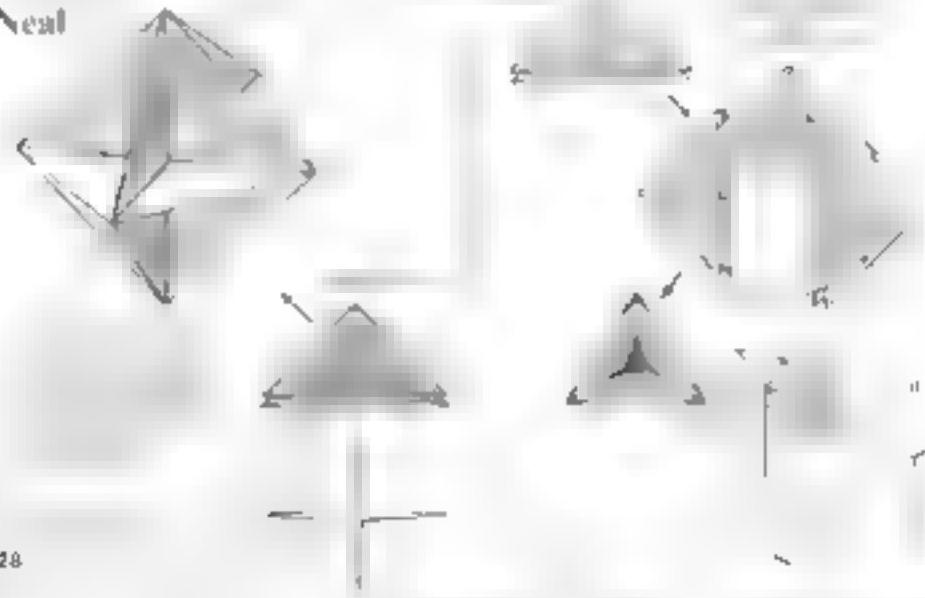
Whirling top



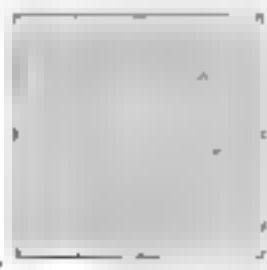
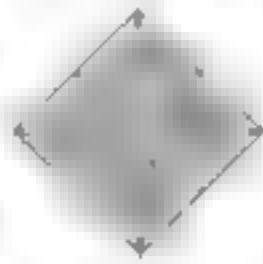
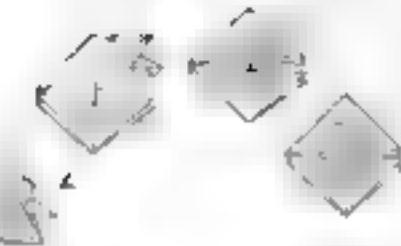
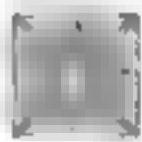
A. Whirling top



Ornament
by Robert
Neal



Multimut
decorative
sphere

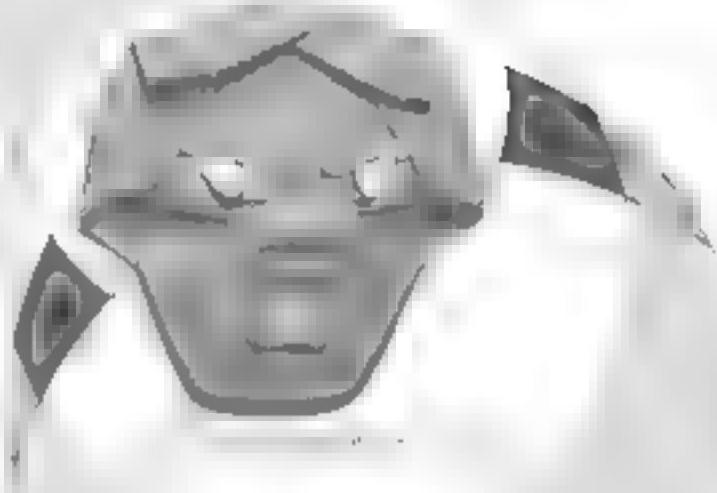


Symbols and Folding Techniques

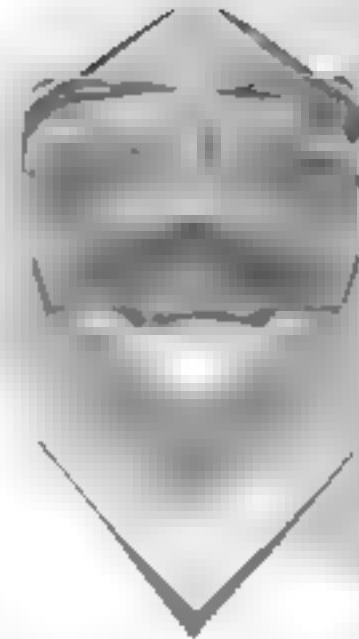


Chapter 1

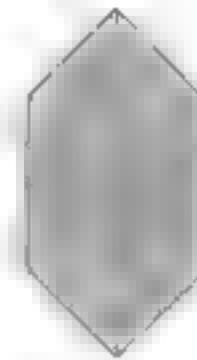
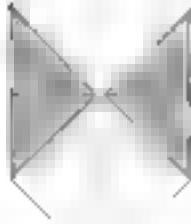
Expressions Unlimited



Masks for All Seasons

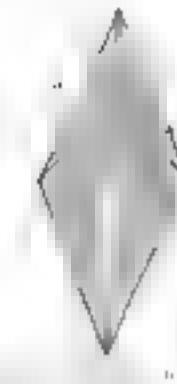
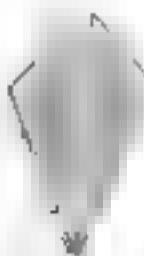
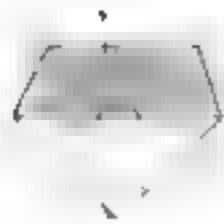
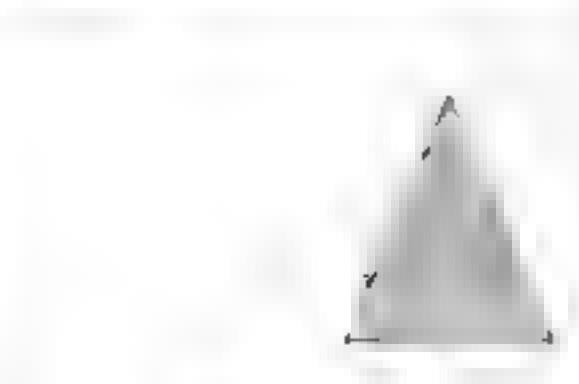


Grinning Old Man

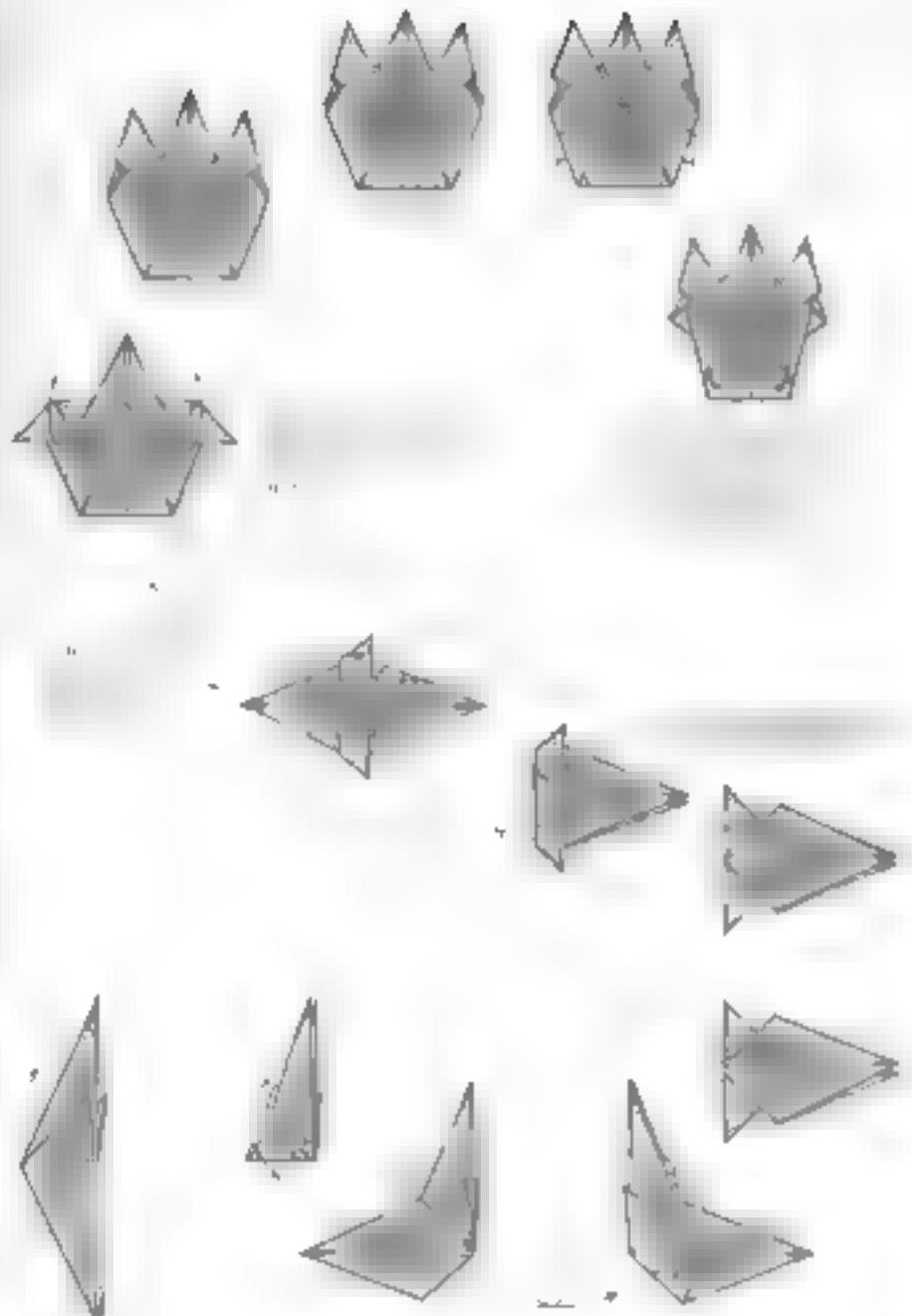




Celestial General

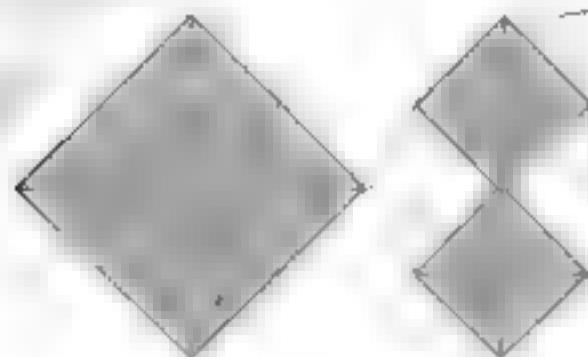
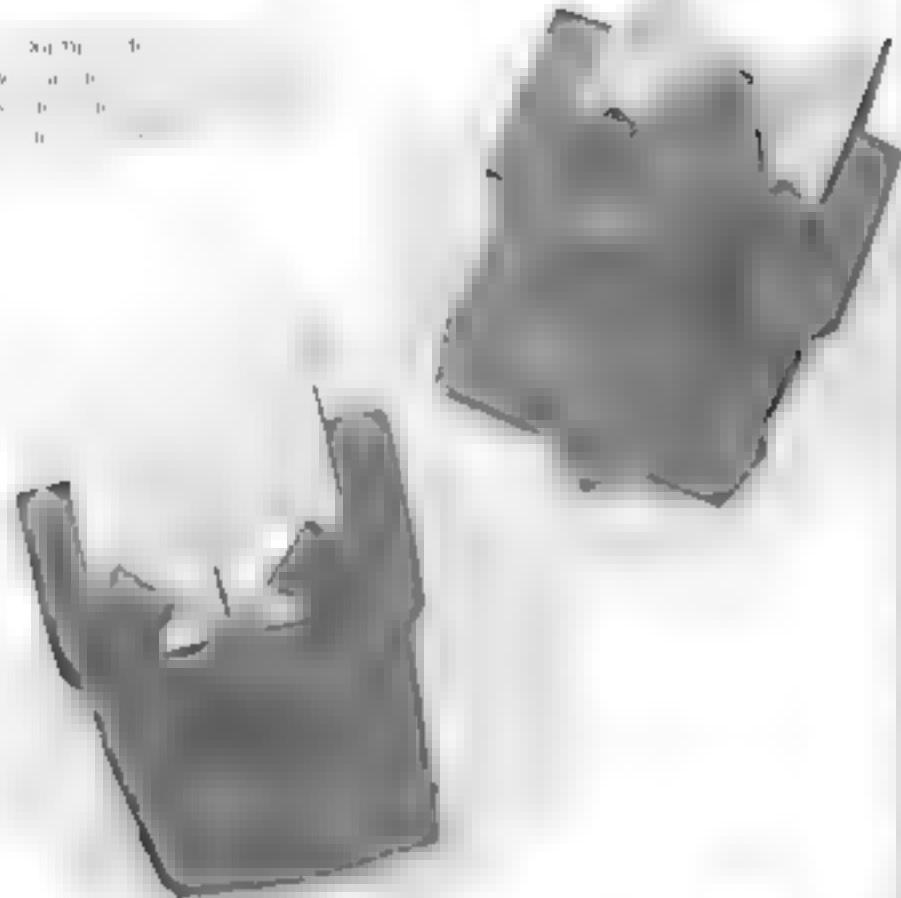


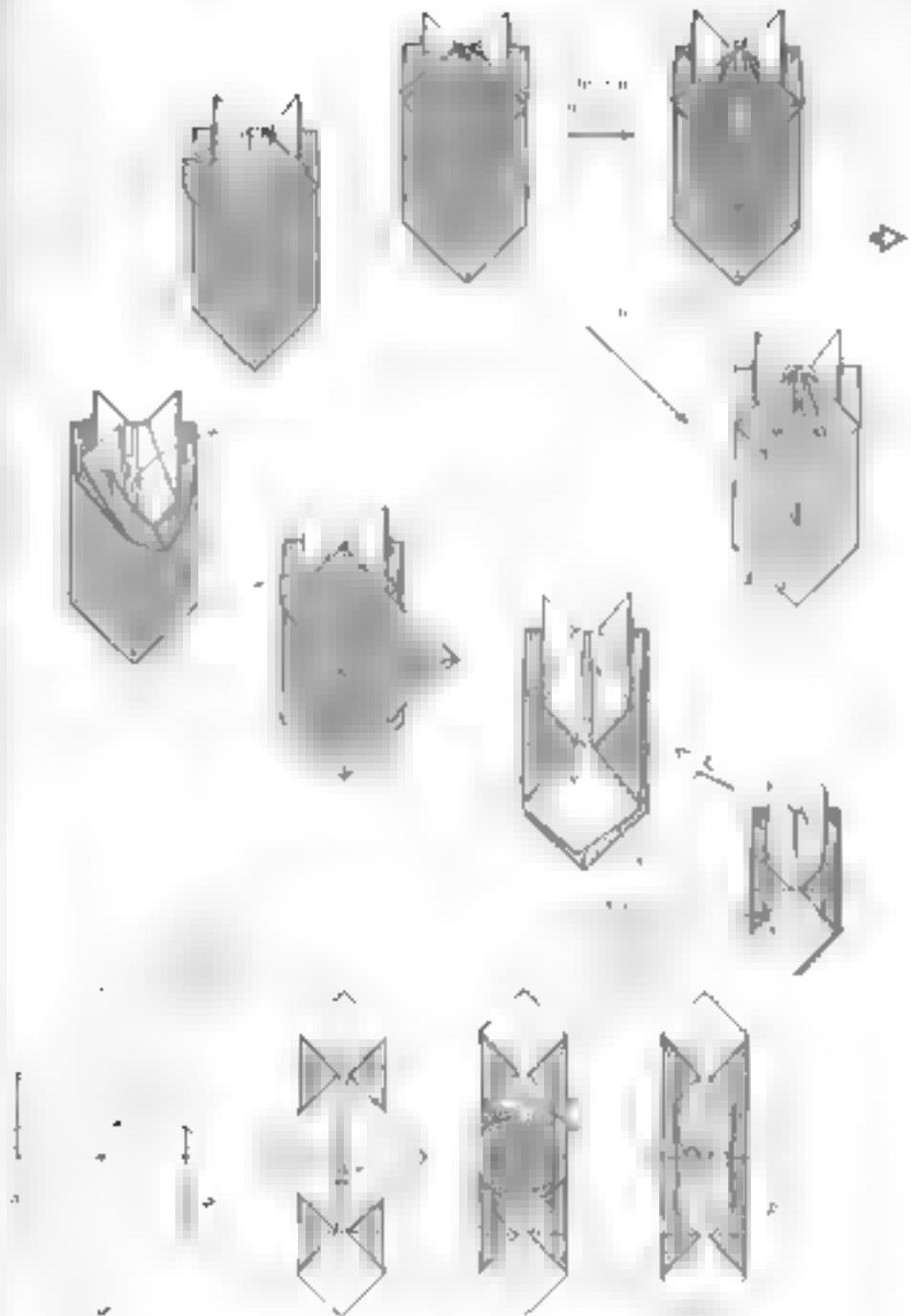
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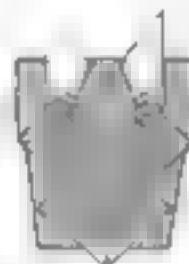
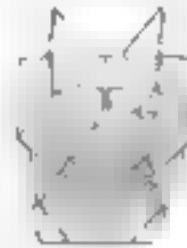
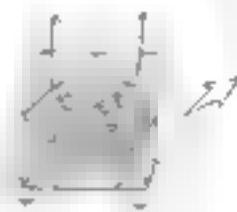
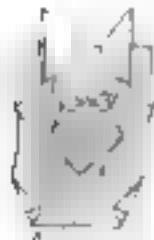
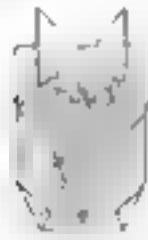
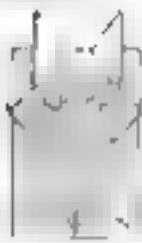
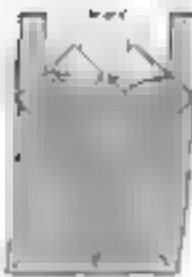
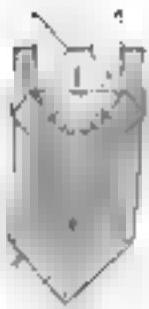


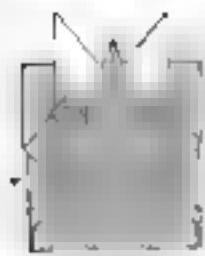
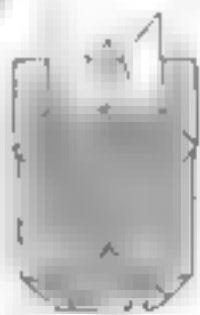
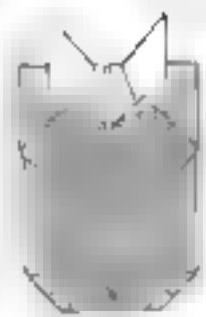
Demon Mask

Th	X0	Y0	W	H
R	255	0	0	0
G	0	255	0	0
B	0	0	255	0
W	0	0	0	255





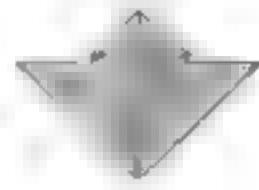
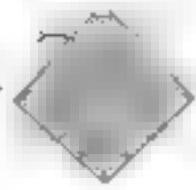
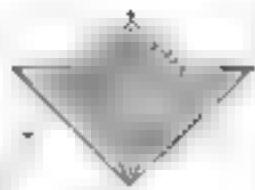
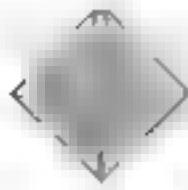


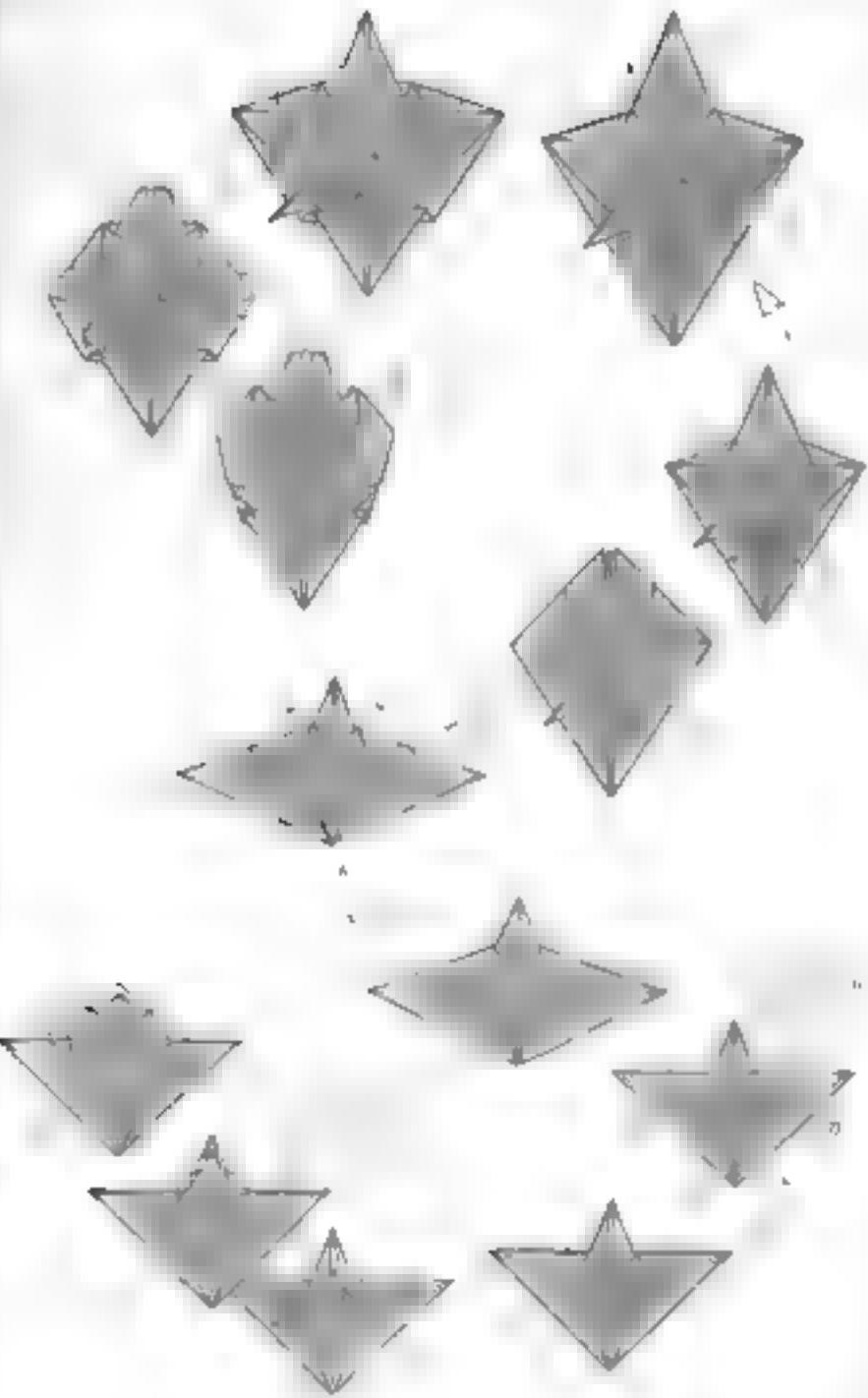


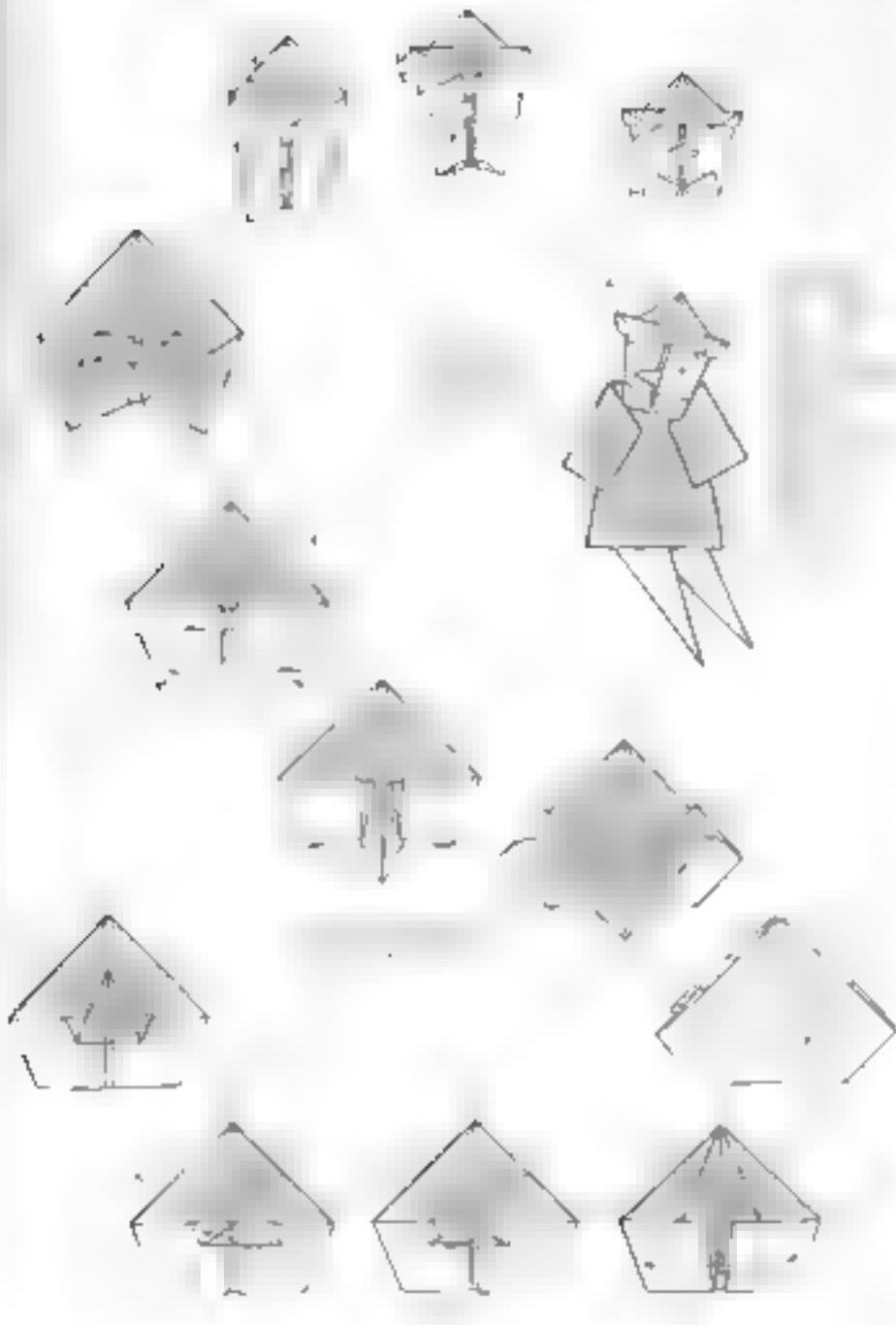
Devil

Tengu Mask

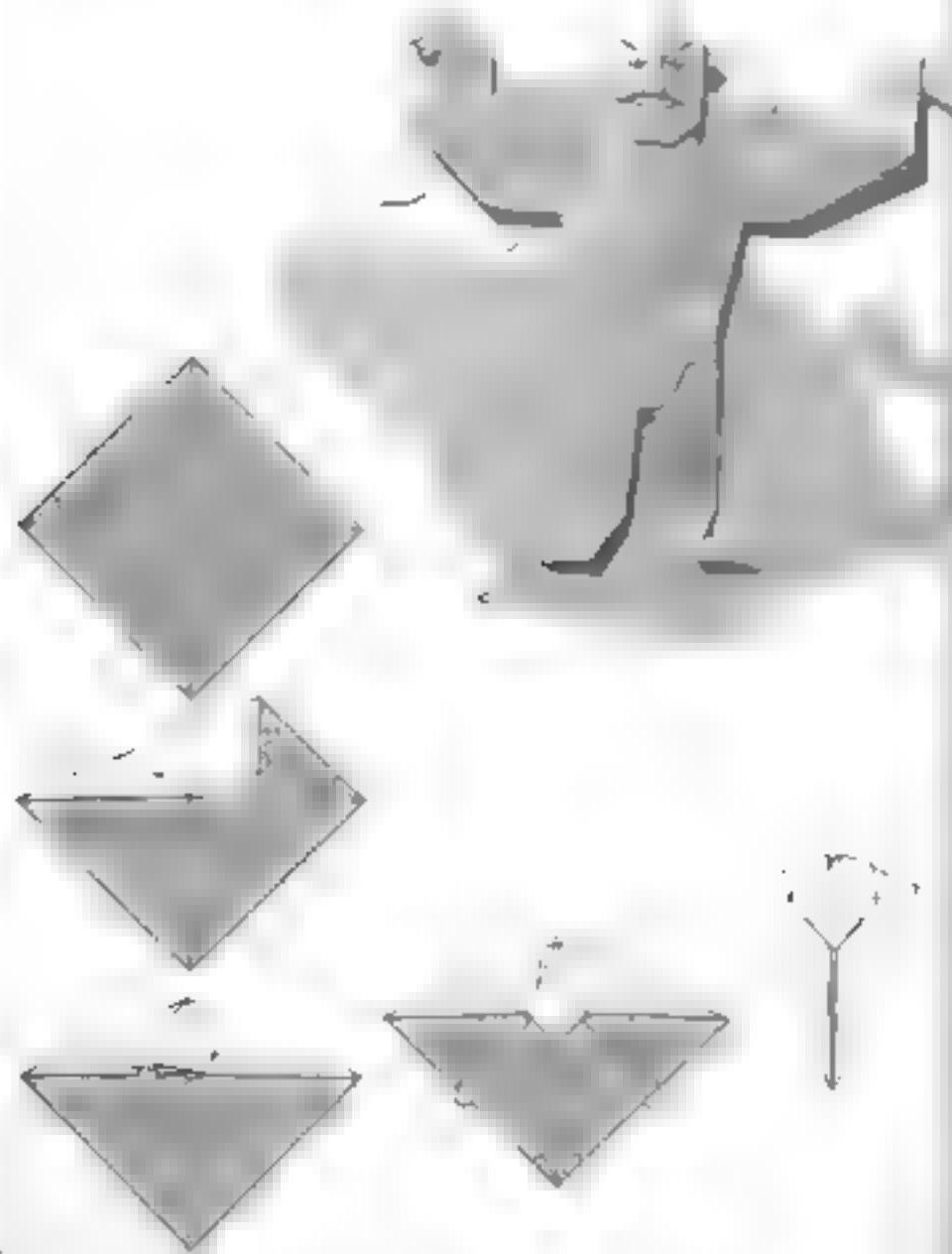
TC T6
S4
S4



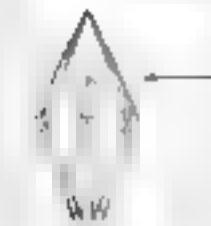




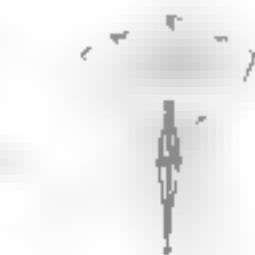
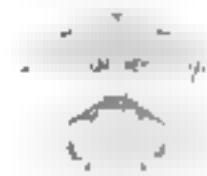
Monster from the Arabian Nights



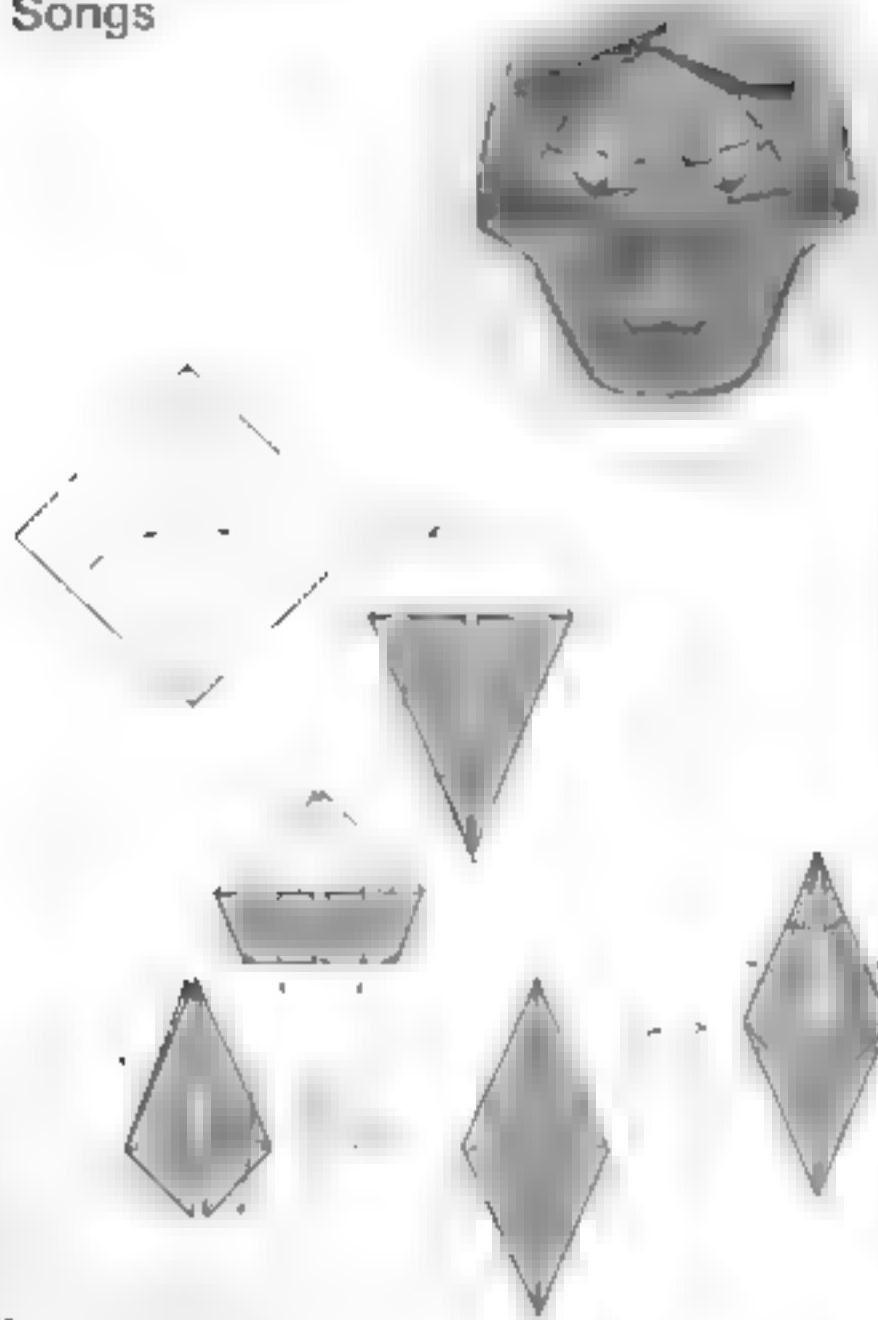
F. *americana* L. var. *cordata*
 $\text{H}_2\text{O} + \text{CO}_2 + \text{light} \rightarrow \text{CH}_2\text{O}$
 $\text{H}_2\text{O} + \text{CO}_2 + \text{light} \rightarrow \text{CH}_2\text{O}$

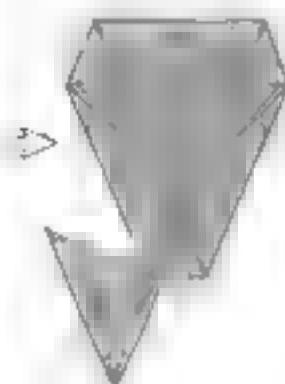
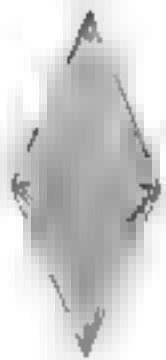
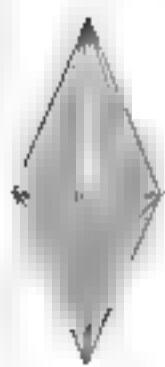
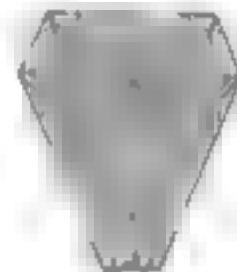
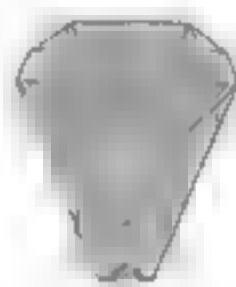
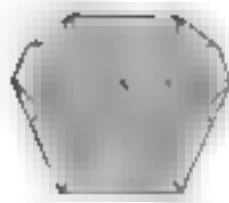
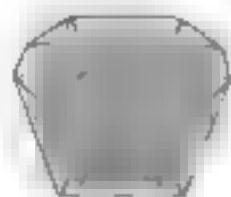
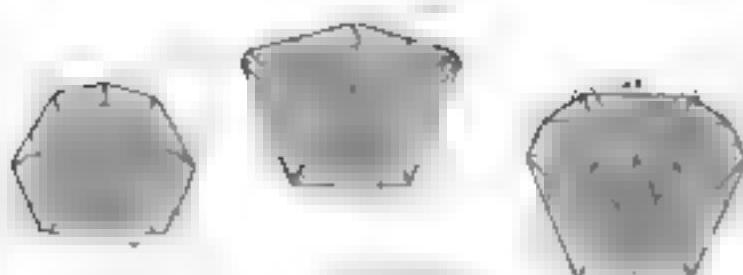


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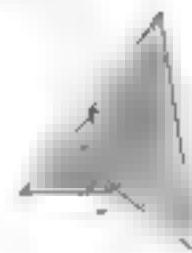
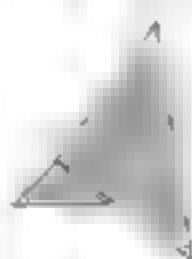
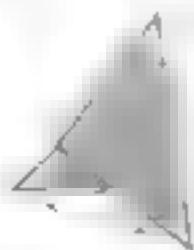
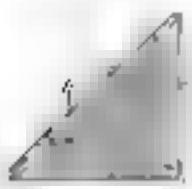
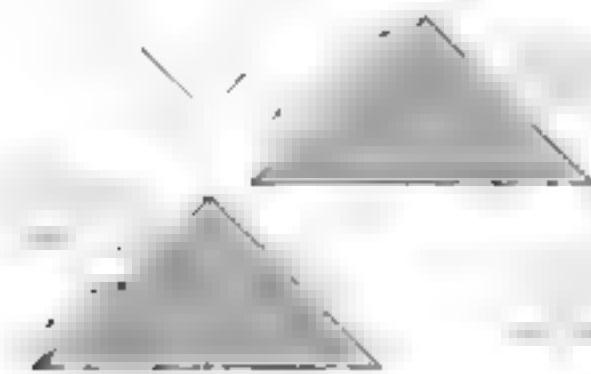


Singer of Antiwar Songs

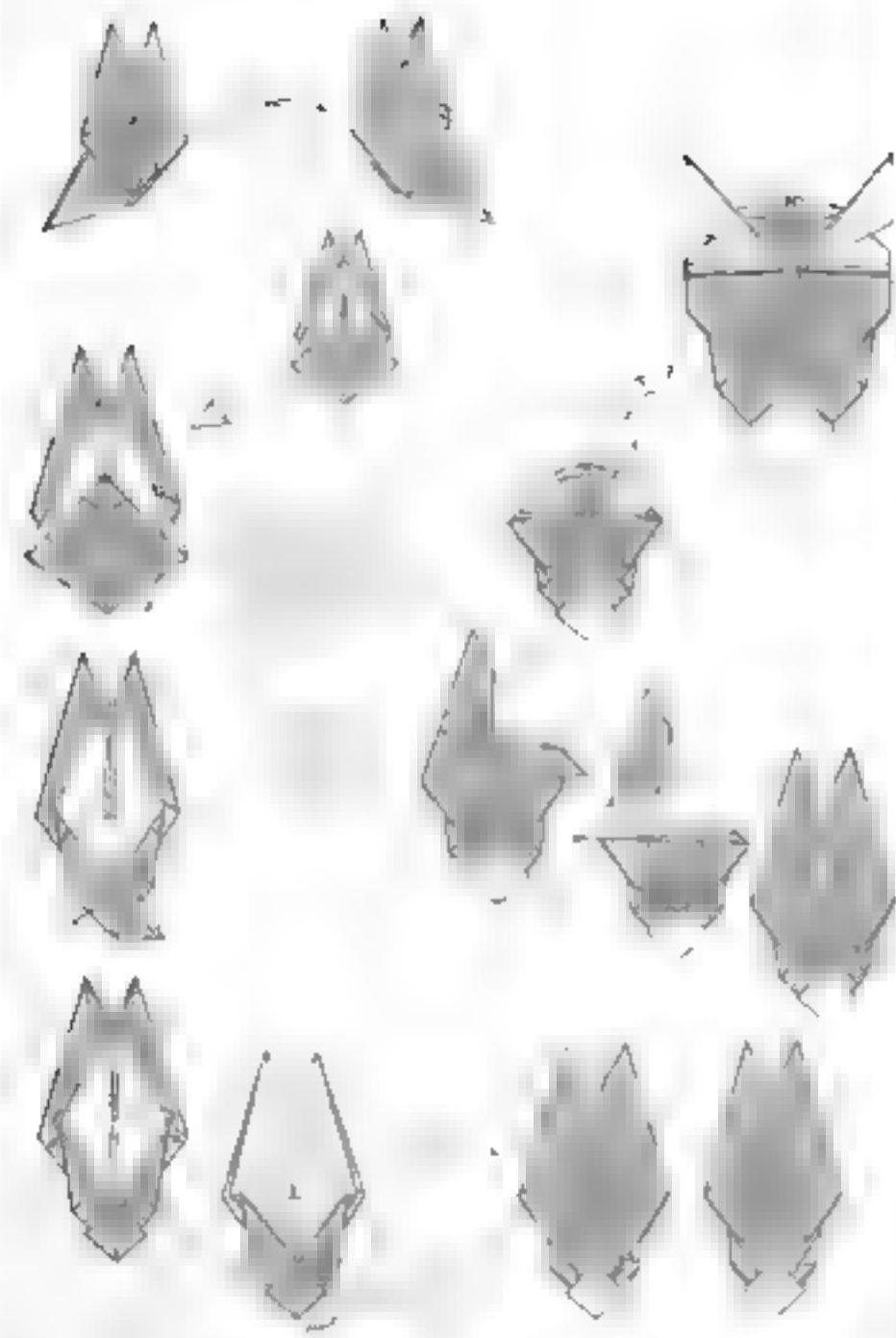


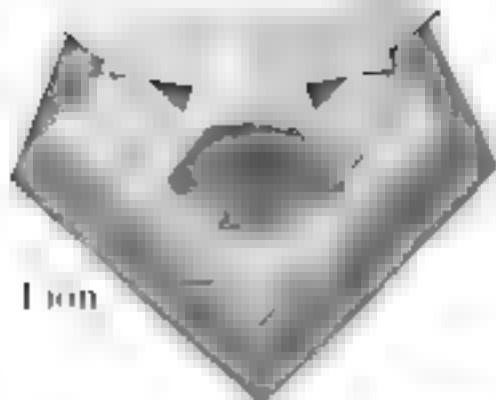


Kamui Mask









100



Corolla

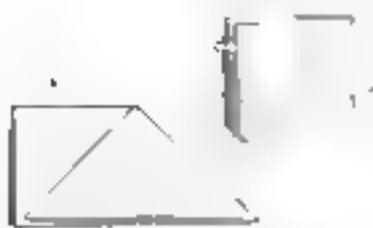
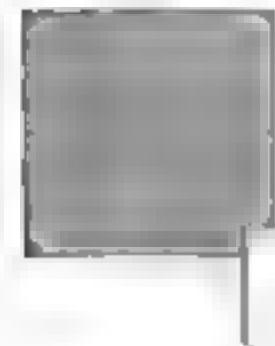
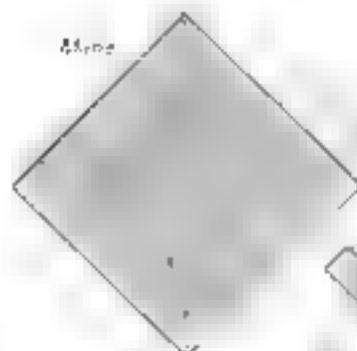


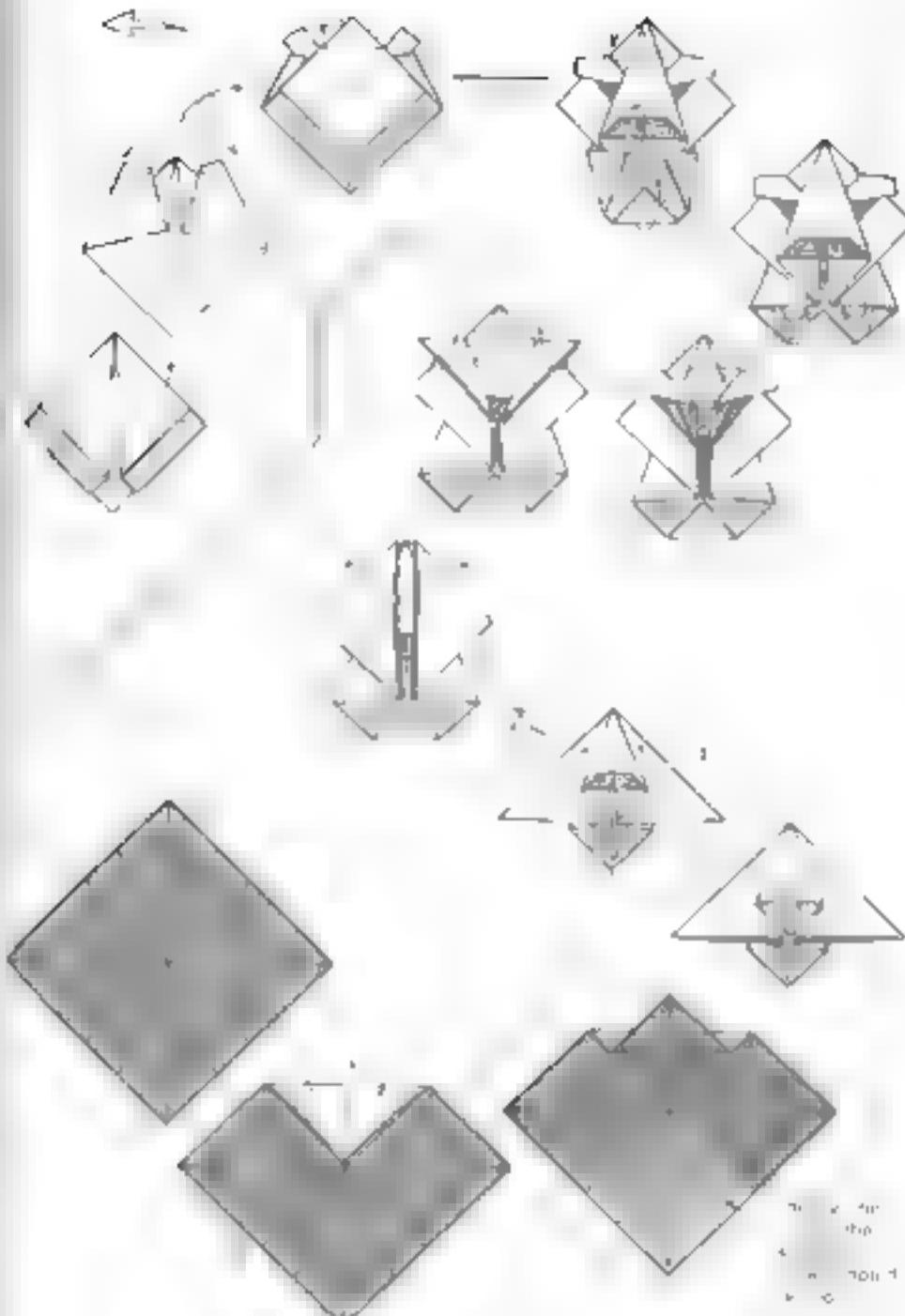
Panda and child



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Lion (Male) Mane





Gonilla

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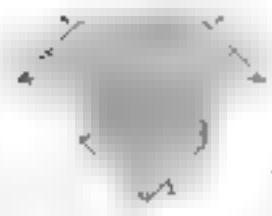
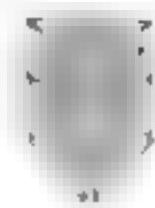
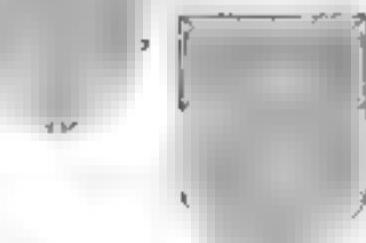
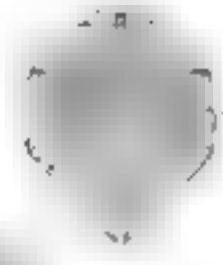
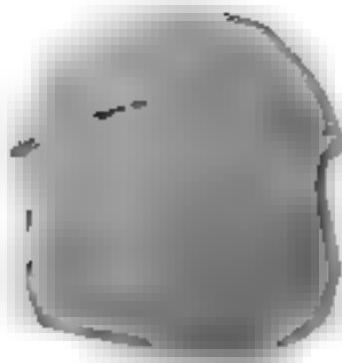
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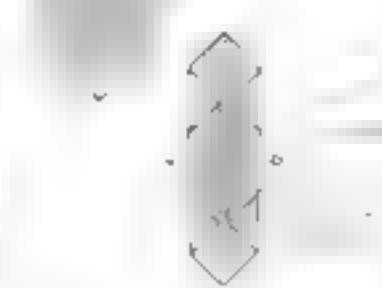
Chapter 2

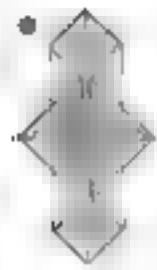
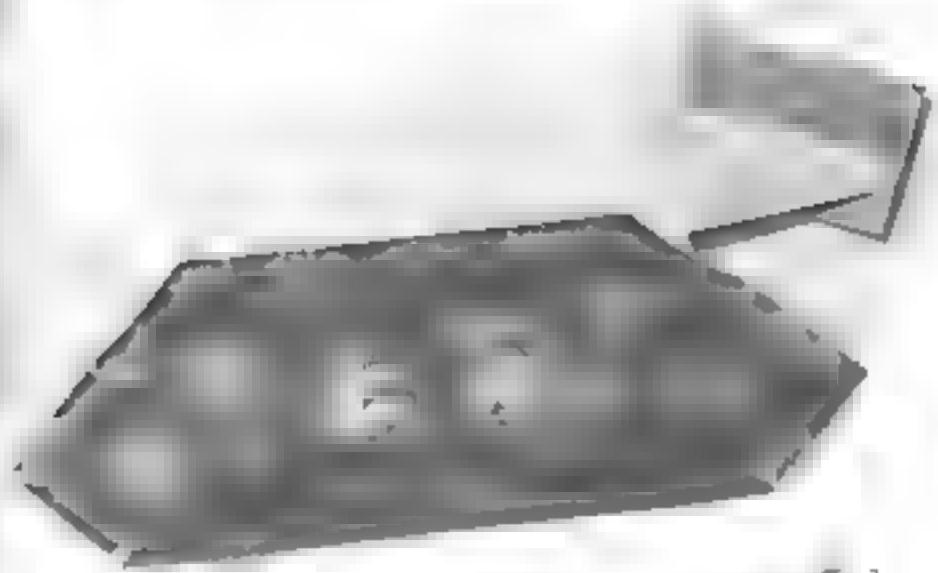
Origami to Make You Think



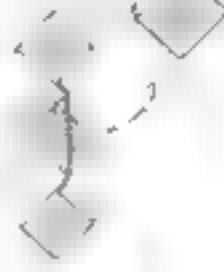
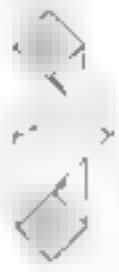
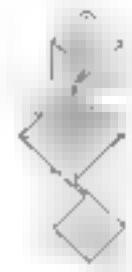
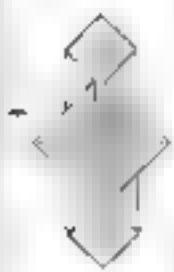
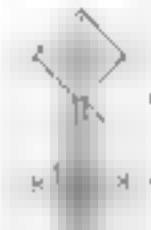
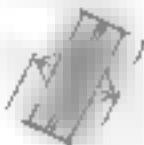
A New Path

Rouge container





Puzzle



The Pleasure of Thinking

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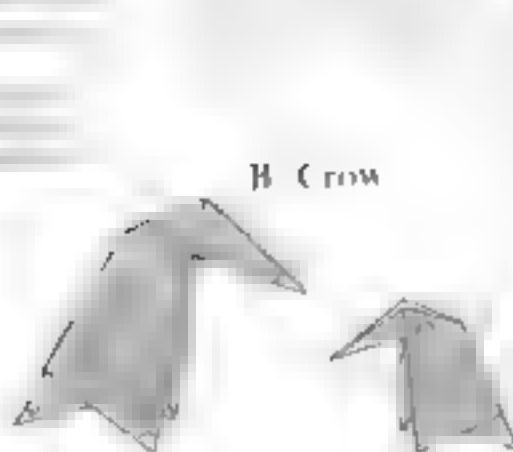
Y

W

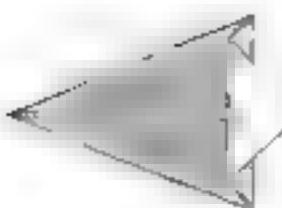
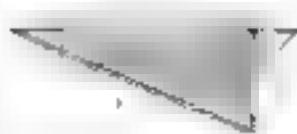
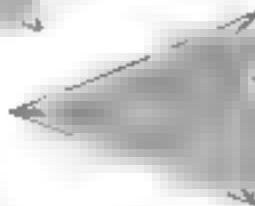
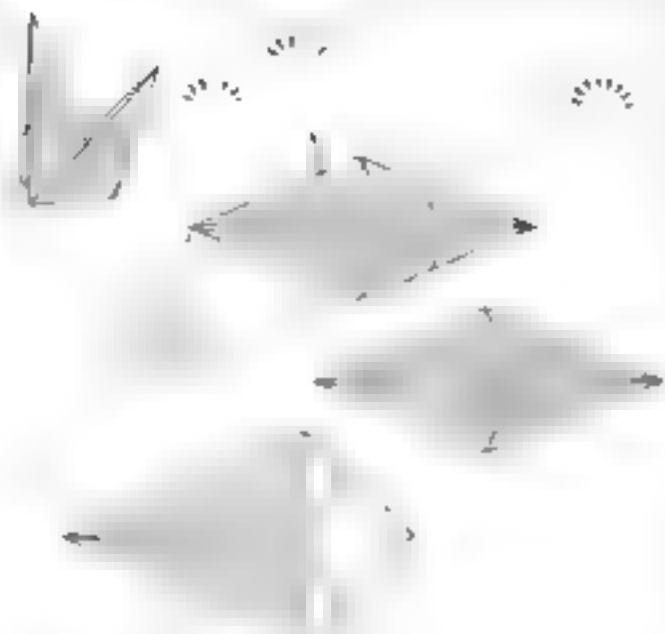
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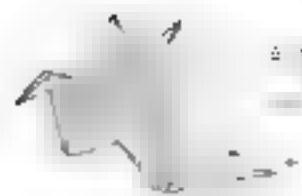
B. Crow



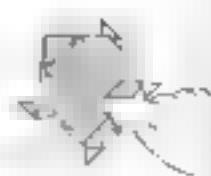
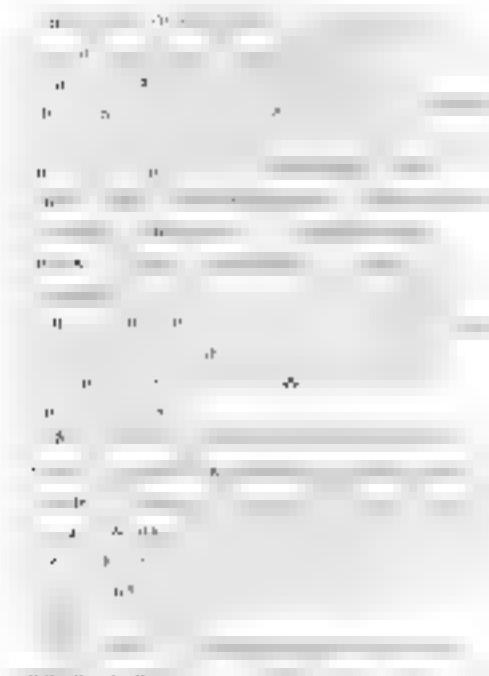
C Grass

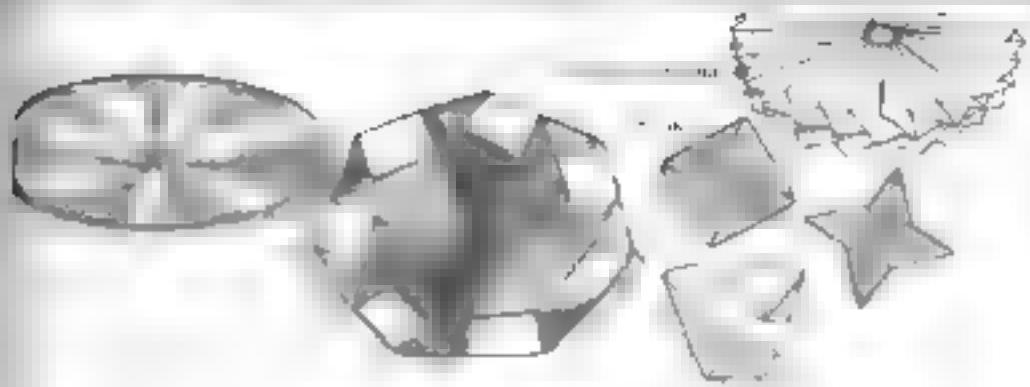


The Assembly Technique

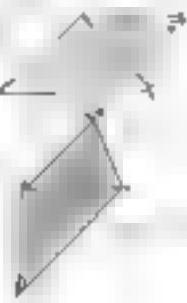
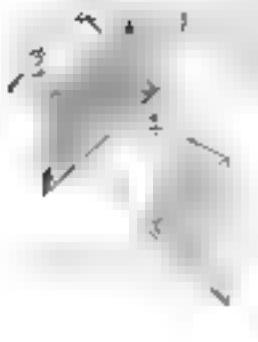
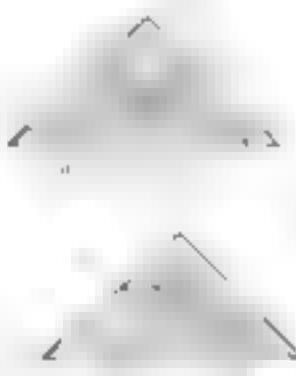
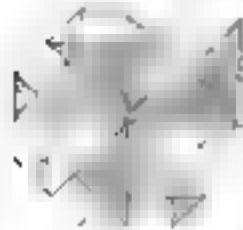
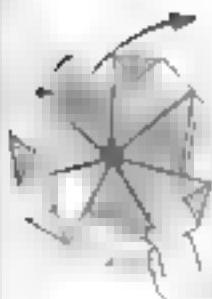


Traditional
masterpieces that
actually work in
amusing ways

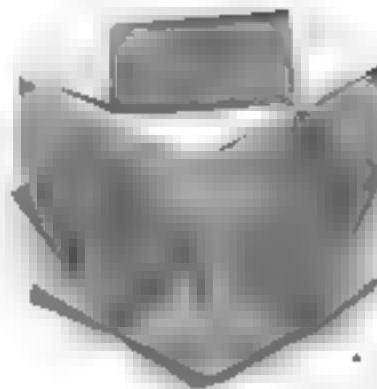




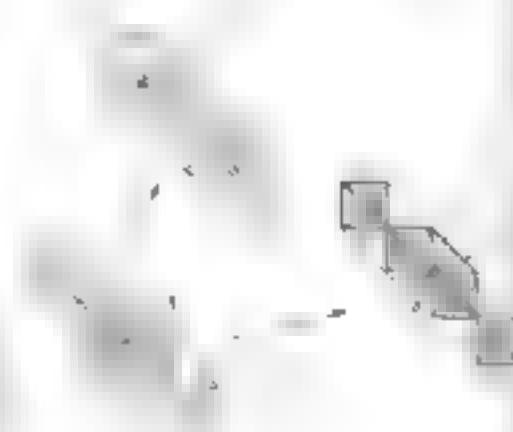
Jumbo and spinning
top

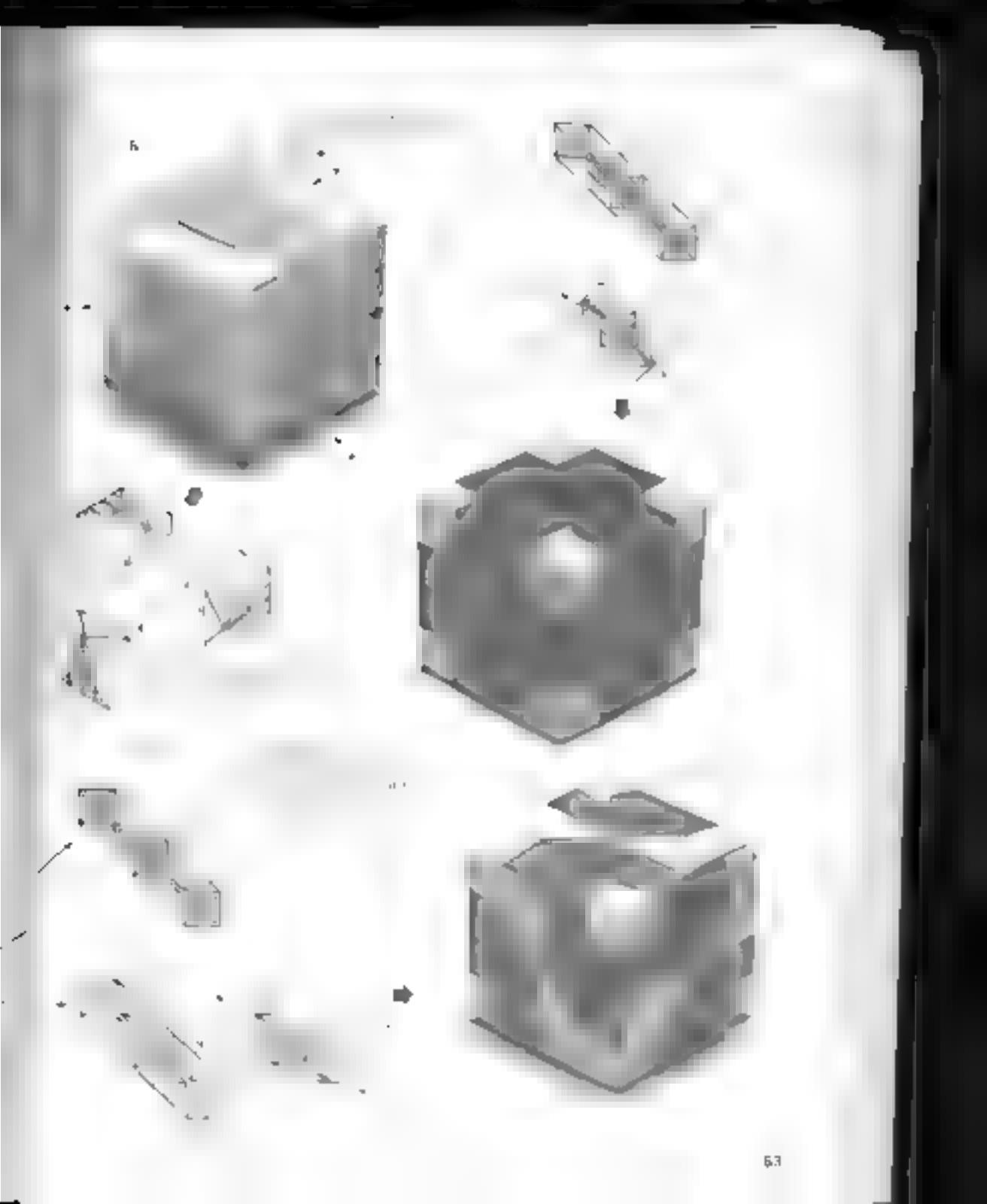


Solid Forms Made Easy



Unit origami — cube
four variations

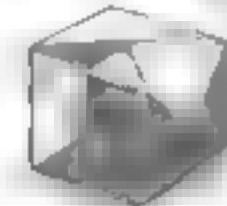
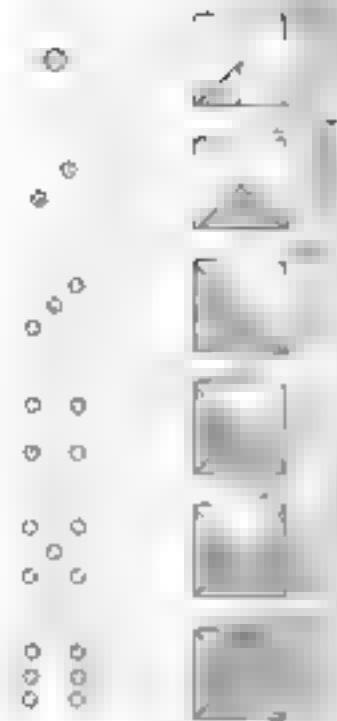


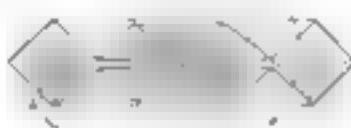
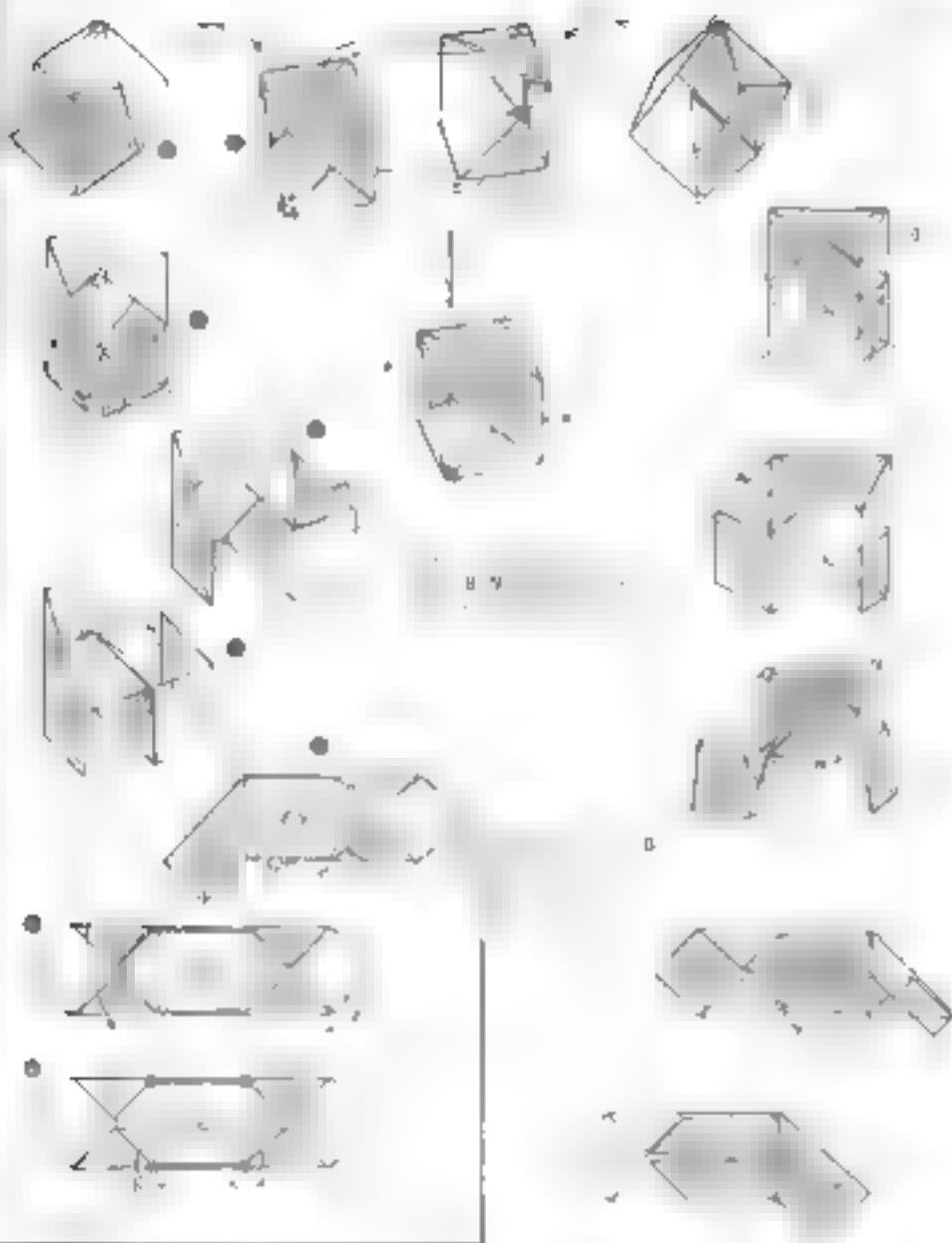


More Than Expected



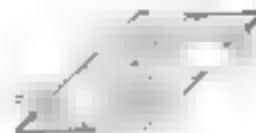
Dice (2-unit assembly)





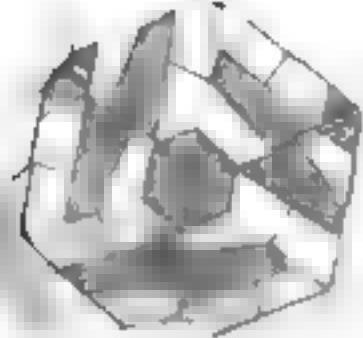
Cube with a Pierrot Face

• 40 •



400 401

Cub.

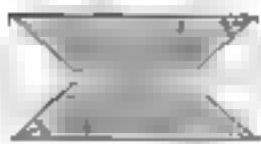
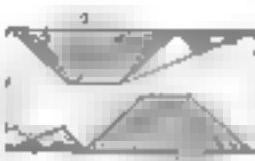


Pierrot face



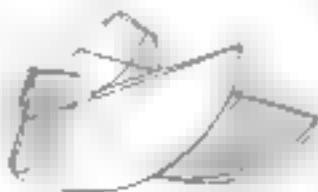
Panda face

Cube with a Panda Face



Paper Shapes

As a dry zone, ABS has a 2.0% dry day rate, which is 4 times higher than the national average. This is due to the lack of rainfall and the high evaporation rates.



Various rectangles



$\omega^1 = \{0, j\}$

$\Omega(0, m, l)$

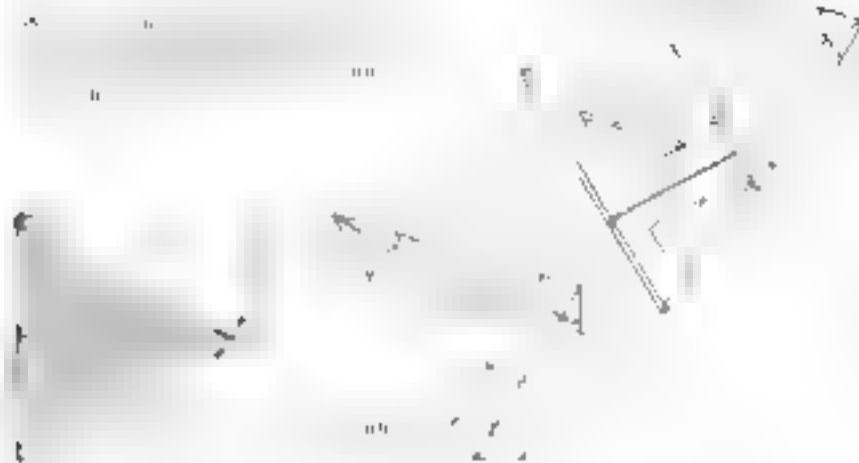


$\Omega(0, m, l)$

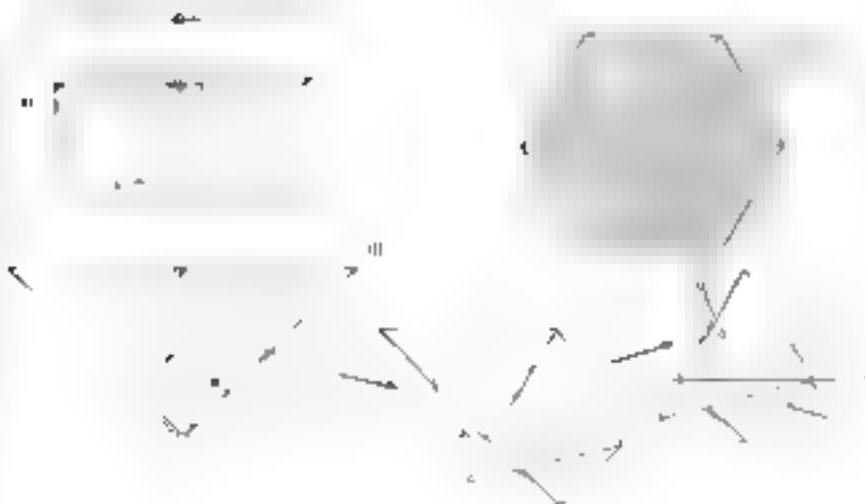
$\Omega(0, m, l)$

$\Omega(0, m, l)$

Origami triangular measure

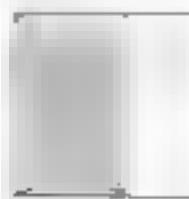


Folding for
angles of 30
and 60
degrees



The Golden Rectangle

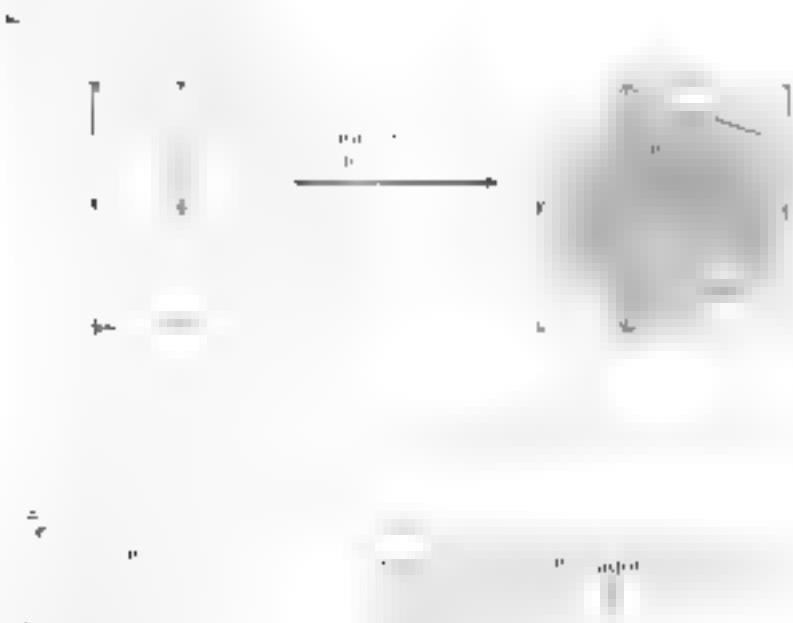
Folding the Golden Rectangle



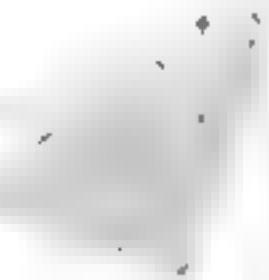


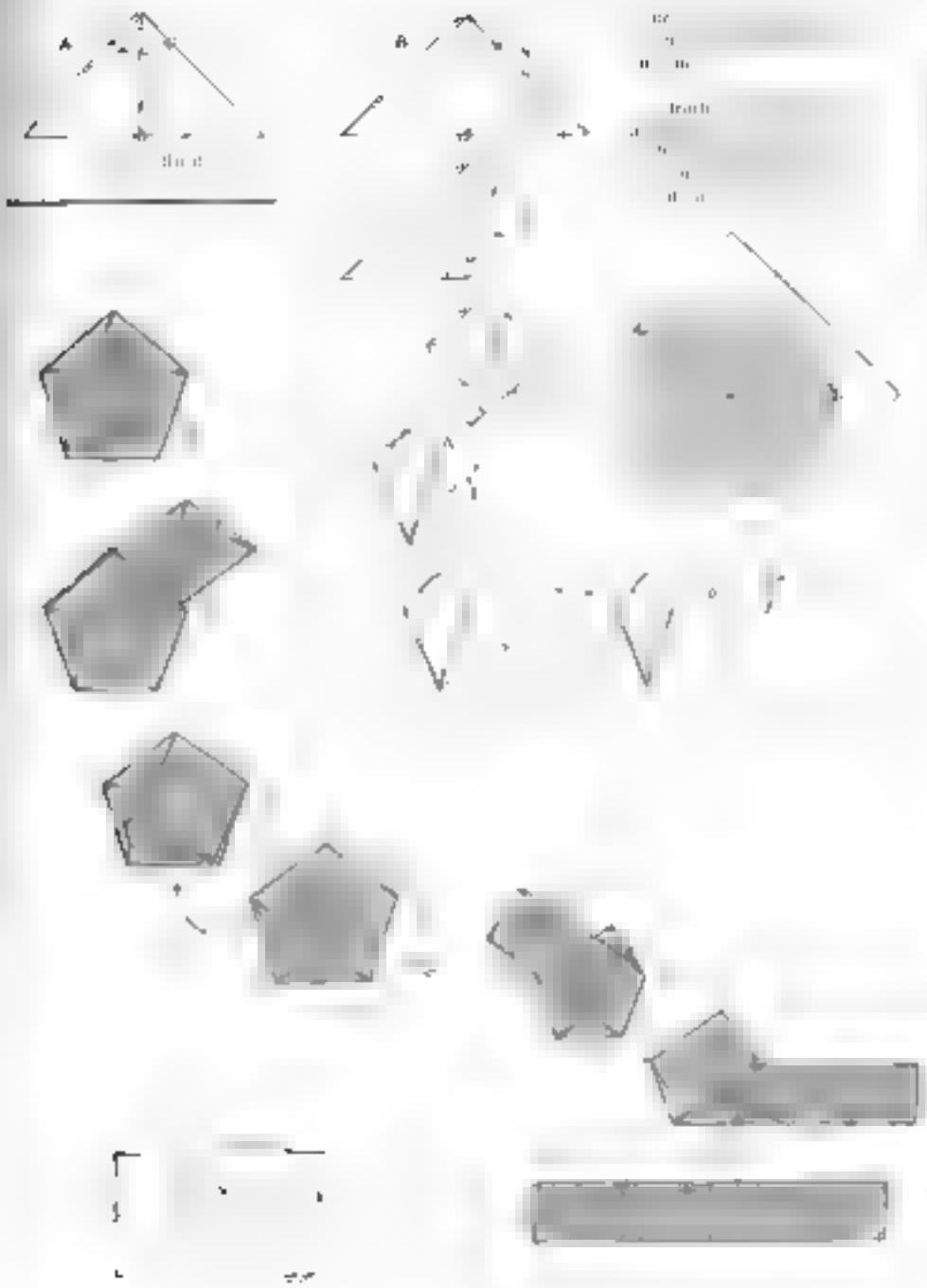
Approximate folding of a regular pentagon

At step 2, the following steps are taken:
 Recompute $\theta = 2 \pi / 5$
 Compute $\alpha = 0.61803398875$
 Compute $\beta = 0.38196601125$
 $\alpha\beta = 0.23606797749$
 $\alpha^2 = 0.38268343236$
 $\beta^2 = 0.14654466094$
 $\alpha + \beta = 0.99013171606$
 $\alpha - \beta = 0.23606797749$
 $\alpha^2 - \beta^2 = 0.23606797749$
 $\alpha^2 + \beta^2 = 0.52921810000$



Regular-pentagonal Knot





in some we discussed or I think such
as depends off the λ^N power
we ignore it hope it will go
through enough so as to cover the λ^N
as well.

After reading

it is now

number

only λ^N

$\mu \neq \mu'$

$\theta \neq \theta'$

$\alpha = \alpha'$

$\alpha \beta = \alpha' \beta'$

μ

μ'

$\theta \neq \theta'$

α

4

$\theta = \theta'$

$\alpha = \alpha'$

$\mu = \mu'$

$\alpha \beta = \alpha' \beta'$

$\theta = \theta'$

$\alpha = \alpha'$

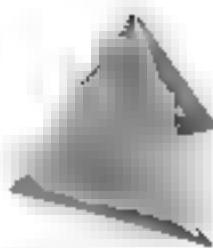
$\mu = \mu'$

$\alpha \beta = \alpha' \beta'$

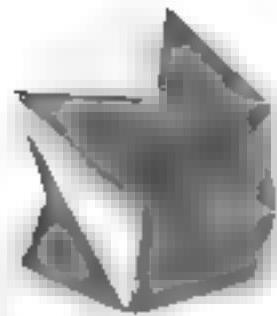
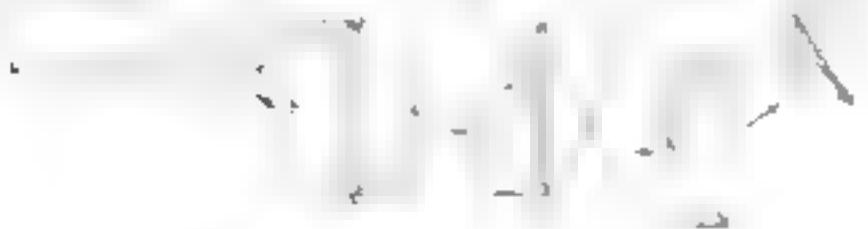
then $\lambda^N = \lambda^N$

Skeleton Structures of Regular Polyhedrons

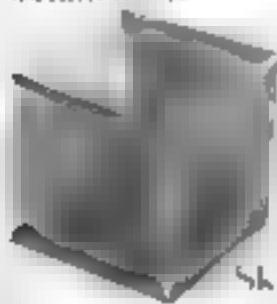
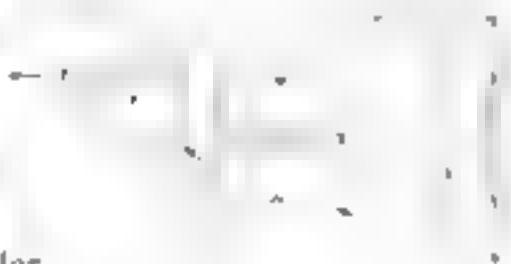
• A skeletal structure is a geometric figure consisting of vertices, edges, and faces.
It is formed by connecting the vertices of a polyhedron with straight lines.
• A skeletal structure is also called a wireframe or wireframe model.
• A skeletal structure of a regular tetrahedron has 4 vertices, 6 edges, and 4 triangular faces.



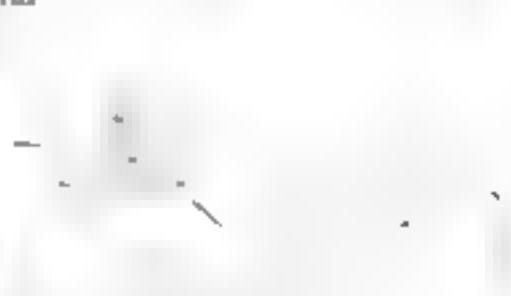
Skeleton of a
regular tetrahedron



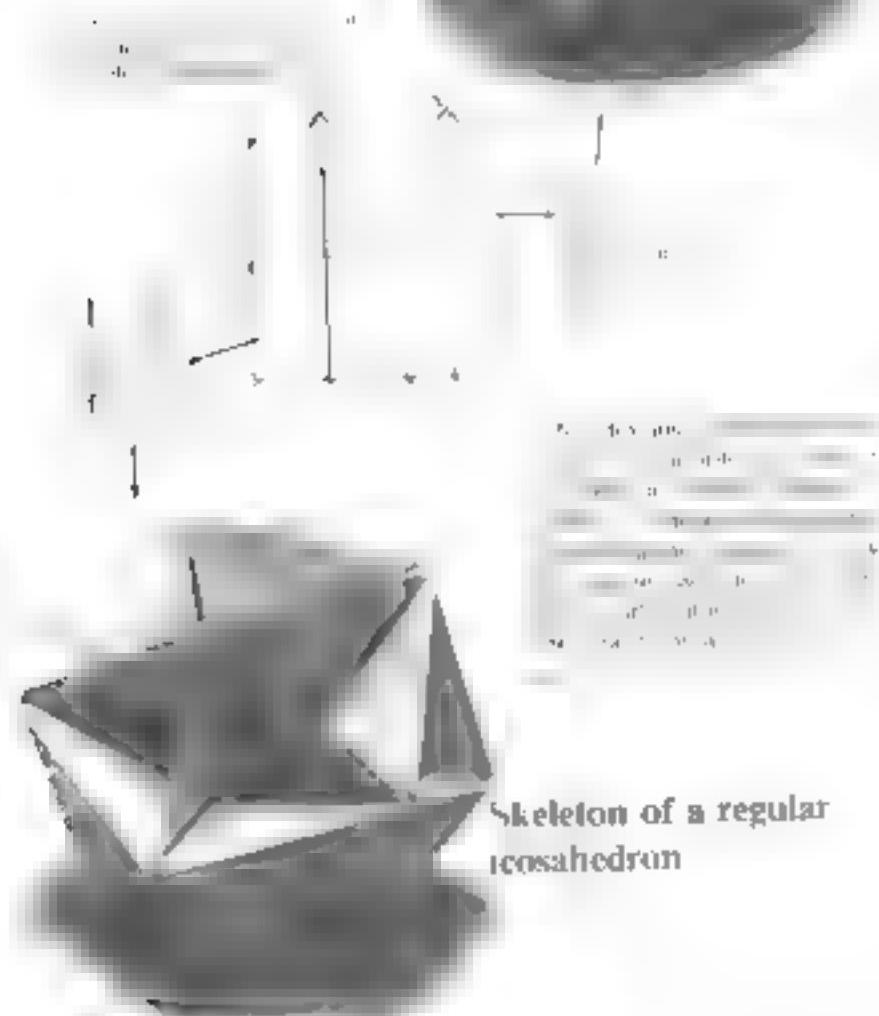
Skeleton of a regular
octahedron



Skeleton of a hexahedron



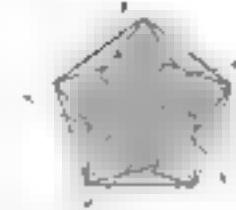
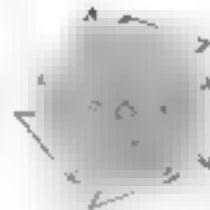
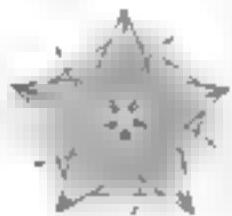
Skeleton of a regular dodecahedron

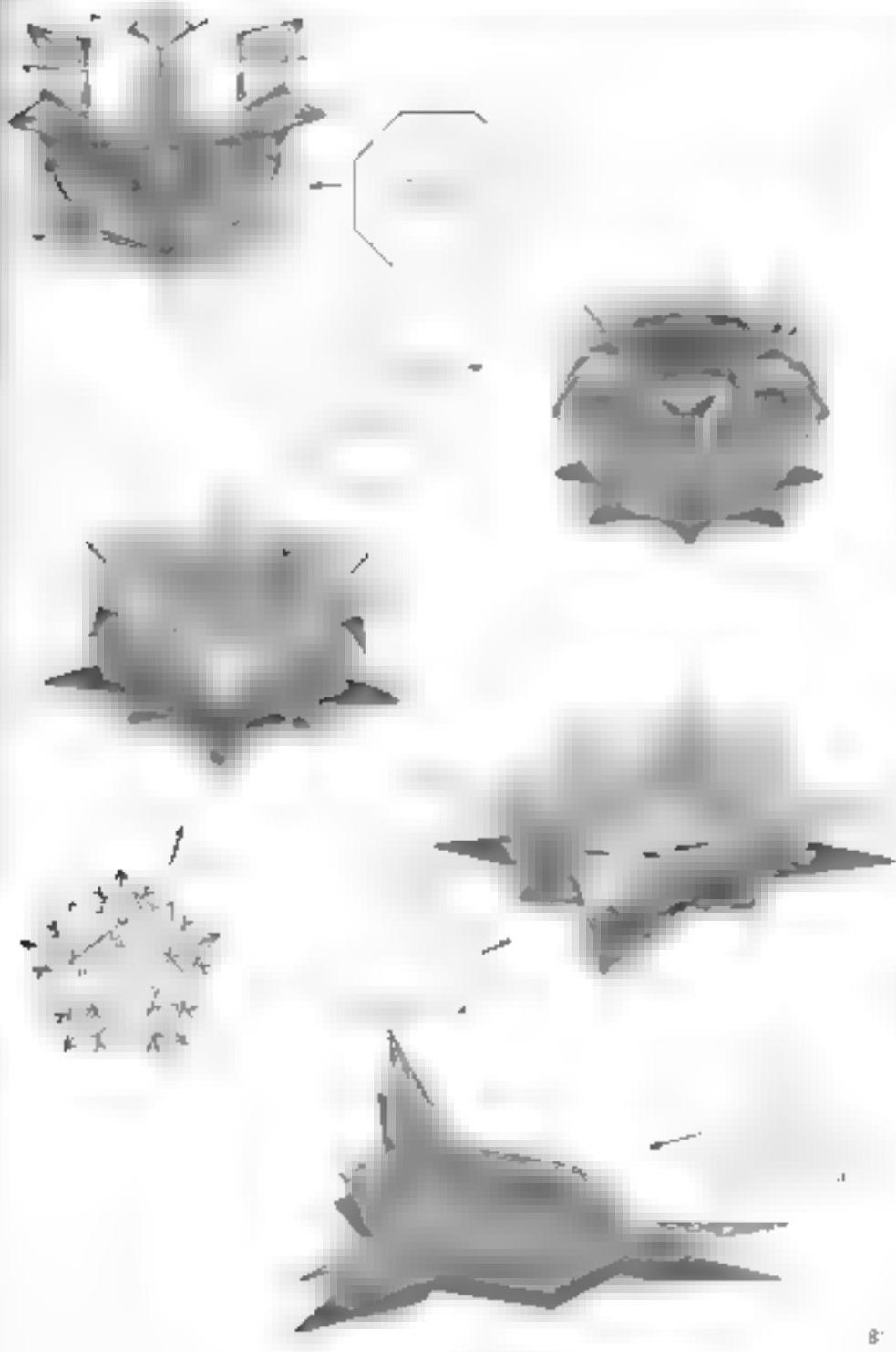


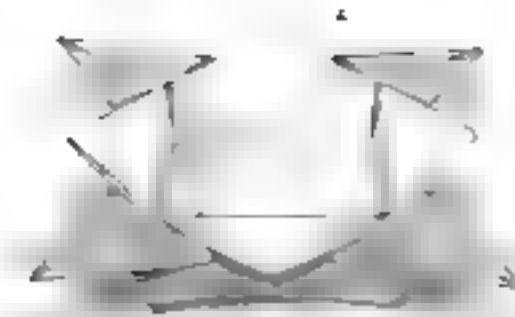
Skeleton of a regular icosahedron

Several Beautiful Containers

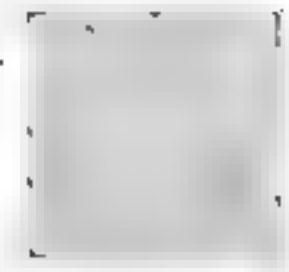
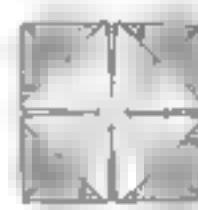
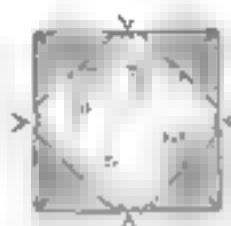
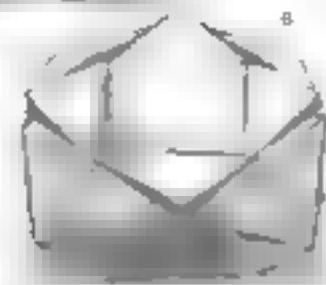
To play the disappearance game, first draw a circle and divide the circle into four equal quadrants. Next, draw a square inside the circle, with each side touching one quadrant. Now, draw a smaller square inside the first square, with each side touching one quadrant. Continue this process until you have drawn four concentric squares. Next, draw a circle inside the innermost square, with its circumference touching all four sides of the square. Finally, draw a small circle inside the innermost circle, with its circumference touching all four sides of the innermost square.

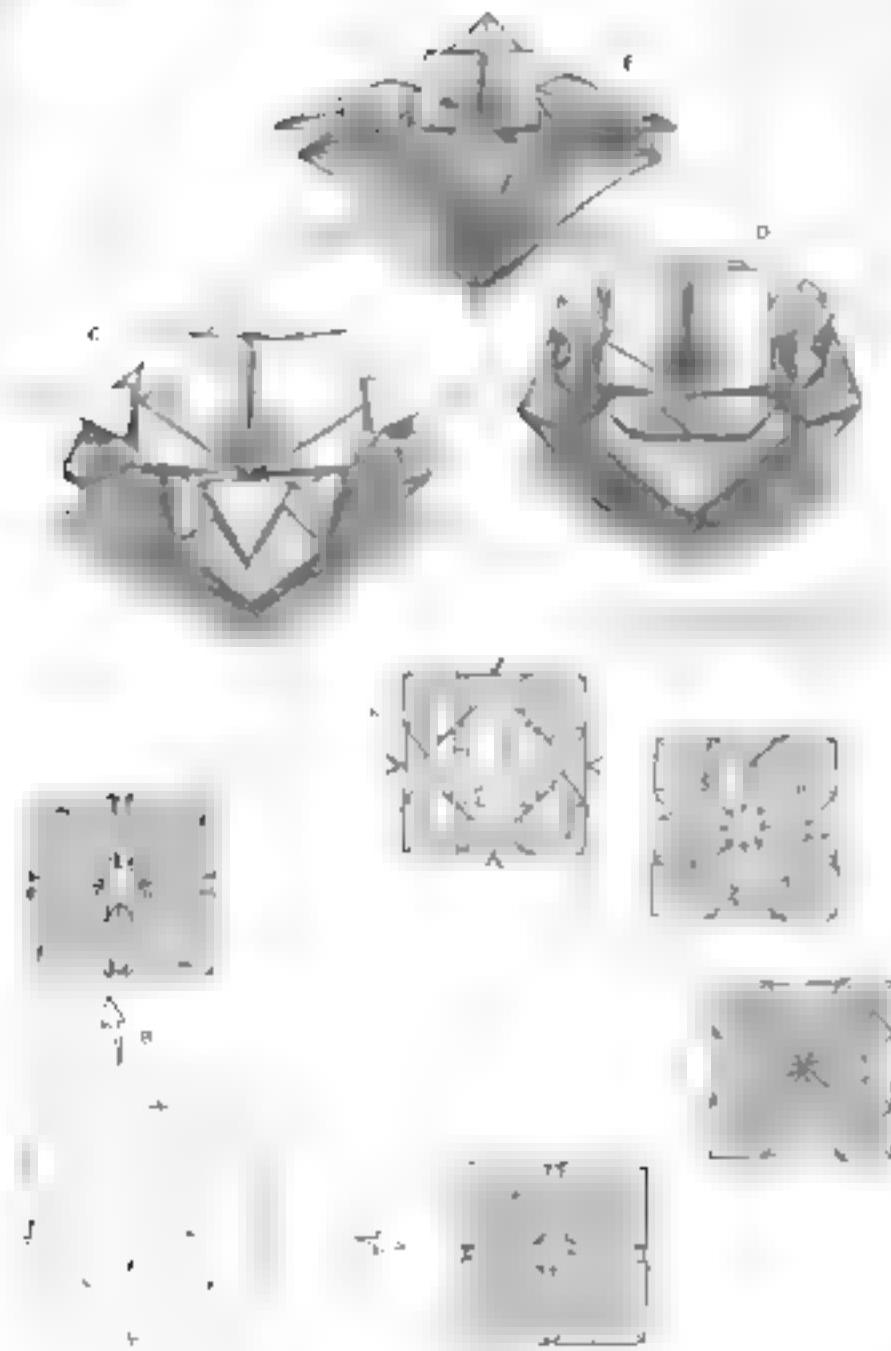






Form Variation





Odd-number Even Divisions

H	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$	$\frac{1}{1024}$	$\frac{1}{2048}$	$\frac{1}{4096}$	$\frac{1}{8192}$	$\frac{1}{16384}$	$\frac{1}{32768}$	$\frac{1}{65536}$	$\frac{1}{131072}$	$\frac{1}{262144}$	$\frac{1}{524288}$	$\frac{1}{1048576}$	$\frac{1}{2097152}$	$\frac{1}{4194304}$	$\frac{1}{8388608}$	$\frac{1}{16777216}$	$\frac{1}{33554432}$	$\frac{1}{67108864}$	$\frac{1}{134217728}$	$\frac{1}{268435456}$	$\frac{1}{536870912}$	$\frac{1}{1073741824}$	$\frac{1}{2147483648}$	$\frac{1}{4294967296}$	$\frac{1}{8589934592}$	$\frac{1}{17179869184}$	$\frac{1}{34359738368}$	$\frac{1}{68719476736}$	$\frac{1}{137438953472}$	$\frac{1}{274877906944}$	$\frac{1}{549755813888}$	$\frac{1}{1099511627776}$	$\frac{1}{2199023255552}$	$\frac{1}{4398046511104}$	$\frac{1}{8796093022208}$	$\frac{1}{17592186044116}$	$\frac{1}{35184372088232}$	$\frac{1}{70368744176464}$	$\frac{1}{140737488352928}$	$\frac{1}{281474976705856}$	$\frac{1}{562949953411712}$	$\frac{1}{1125899906823424}$	$\frac{1}{2251799813646848}$	$\frac{1}{4503599627293696}$	$\frac{1}{9007199254587392}$	$\frac{1}{18014398509174784}$	$\frac{1}{36028797018349568}$	$\frac{1}{72057594036699136}$	$\frac{1}{144115188073398272}$	$\frac{1}{288230376146796544}$	$\frac{1}{576460752293593088}$	$\frac{1}{1152921504587186176}$	$\frac{1}{2305843009174372352}$	$\frac{1}{4611686018348744704}$	$\frac{1}{9223372036697489408}$	$\frac{1}{18446744073394978816}$	$\frac{1}{36893488146789957632}$	$\frac{1}{73786976293579915264}$	$\frac{1}{147573952587159830528}$	$\frac{1}{295147905174319661056}$	$\frac{1}{590295810348639322112}$	$\frac{1}{1180591620691278644224}$	$\frac{1}{2361183241382557288448}$	$\frac{1}{4722366482765114576896}$	$\frac{1}{9444732965530229153792}$	$\frac{1}{18889465931060458307584}$	$\frac{1}{37778931862120916615168}$	$\frac{1}{75557863724241833230336}$	$\frac{1}{15111572748448366460672}$	$\frac{1}{30223145496896732921344}$	$\frac{1}{60446290993793465842688}$	$\frac{1}{120892581987586931685376}$	$\frac{1}{241785163975173863370752}$	$\frac{1}{483570327950347726741504}$	$\frac{1}{967140655900695453483008}$	$\frac{1}{1934281311801390906966016}$	$\frac{1}{3868562623602781813932032}$	$\frac{1}{7737125247205563627864064}$	$\frac{1}{15474250494411127255728128}$	$\frac{1}{30948500988822254511456256}$	$\frac{1}{6189700197764450902291256}$	$\frac{1}{1237940039552890180448252}$	$\frac{1}{2475880079105780360896504}$	$\frac{1}{4951760158211560721793008}$	$\frac{1}{9903520316423121443586016}$	$\frac{1}{1980704063284624288717232}$	$\frac{1}{3961408126569248577434464}$	$\frac{1}{7922816253138497154868928}$	$\frac{1}{15845632566276994309737856}$	$\frac{1}{31691265132553988619475712}$	$\frac{1}{63382530265107977238951424}$	$\frac{1}{12676506053021595447782848}$	$\frac{1}{25353012106043190895565696}$	$\frac{1}{50706024212086381791131392}$	$\frac{1}{10141204842417276358226288}$	$\frac{1}{20282409684834552716452576}$	$\frac{1}{40564819369669105432905152}$	$\frac{1}{81129638739338210865810304}$	$\frac{1}{162259277478676421731620688}$	$\frac{1}{324518554957352843463241376}$	$\frac{1}{649037109914705686926482752}$	$\frac{1}{1298074219829411373852965504}$	$\frac{1}{2596148439658822747705931008}$	$\frac{1}{5192296879317645495411862016}$	$\frac{1}{10384593758635290990823724032}$	$\frac{1}{20769187517270581981647448064}$	$\frac{1}{41538375034541163963294896128}$	$\frac{1}{83076750069082327926589792256}$	$\frac{1}{166153500138164655853779584512}$	$\frac{1}{332307000276329311707559168024}$	$\frac{1}{664614000552658623415118336048}$	$\frac{1}{1329228001105317246830236672096}$	$\frac{1}{2658456002210634493660473344192}$	$\frac{1}{5316912004421268987320946688384}$	$\frac{1}{10633824008842537974641893376768}$	$\frac{1}{21267648017685075949283786753536}$	$\frac{1}{42535296035370151898567573507072}$	$\frac{1}{85070592070740303797135147014144}$	$\frac{1}{170141184141480607594270294028288}$	$\frac{1}{340282368282961215188540588056576}$	$\frac{1}{680564736565922430377081176113552}$	$\frac{1}{136112947313184466075416235226704}$	$\frac{1}{272225894626368932150832470453408}$	$\frac{1}{544451789252737864301664940906816}$	$\frac{1}{1088903578505475728603328811813632}$	$\frac{1}{2177807157010951457206657623627264}$	$\frac{1}{4355614314021852914413315247254528}$	$\frac{1}{8711228628043705828826630494509056}$	$\frac{1}{17422457256087411657653260989018112}$	$\frac{1}{34844914512174823315306521978036224}$	$\frac{1}{69689829024349646630613043956072448}$	$\frac{1}{13937965804869929326122686791214896}$	$\frac{1}{27875931609739858652245373582429792}$	$\frac{1}{55751863219479717304490747164859584}$	$\frac{1}{11150372643895943460898148332919168}$	$\frac{1}{22300745287791886921796296665838336}$	$\frac{1}{44601490575583773843592593331676672}$	$\frac{1}{8920298115116754768718518666335344}$	$\frac{1}{1784059623023350953743703733267088}$	$\frac{1}{3568119246046701907487407466534176}$	$\frac{1}{7136238492093403814974814933068352}$	$\frac{1}{142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Simplified way of making divisions

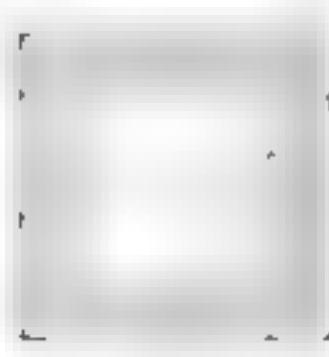
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2	-20	-15	-10	-20	-20
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4	-40	-30	-20	-40	-40

• 111111

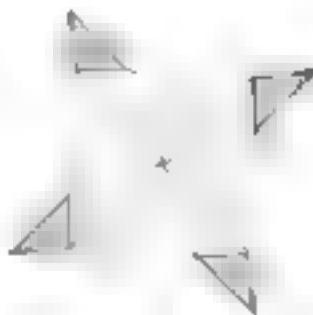
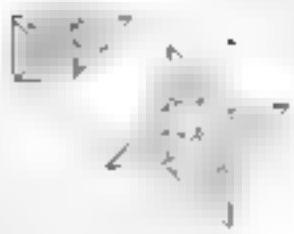
Applying Five-part Equal Folding. Two Solid Figures

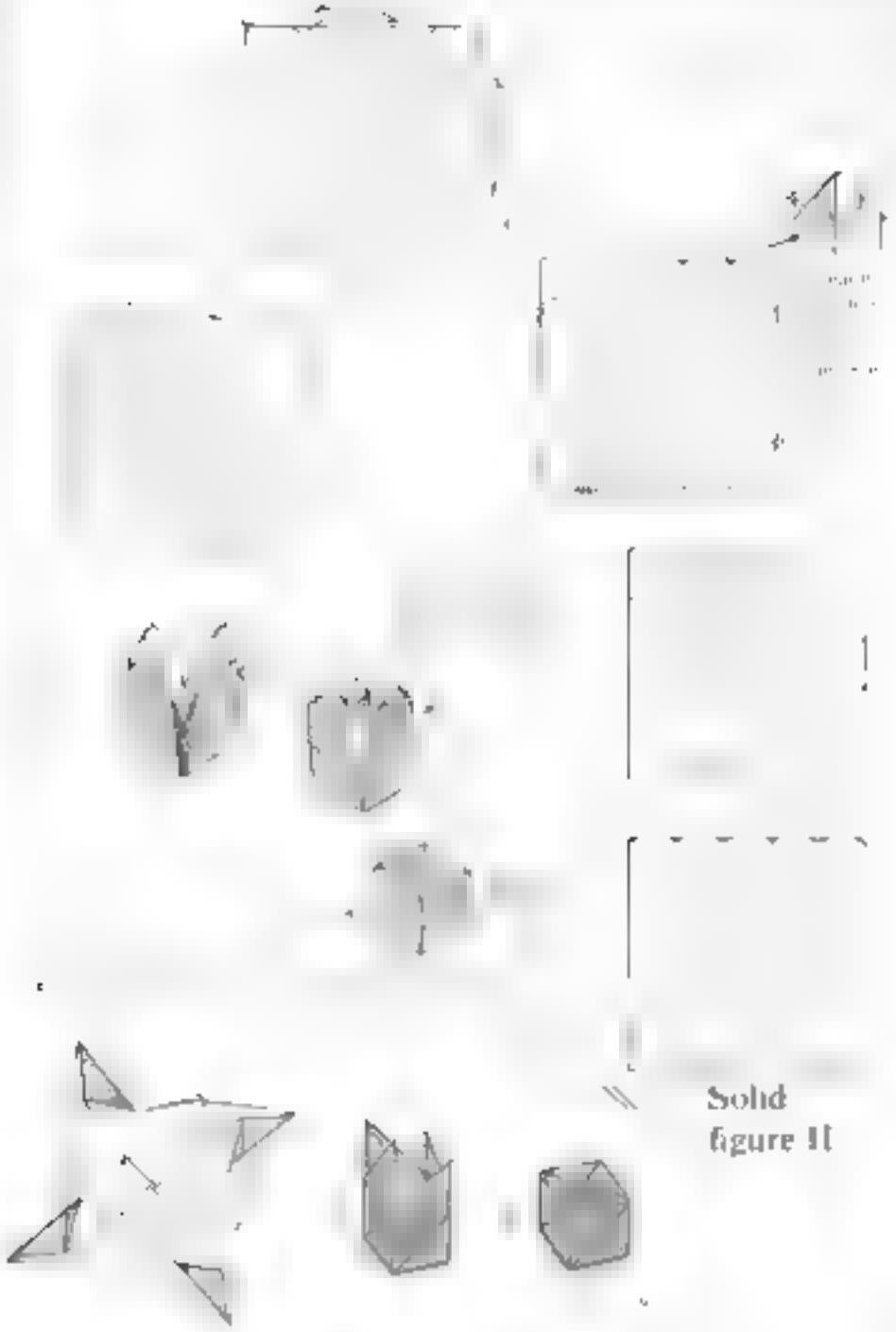


Solid figure [

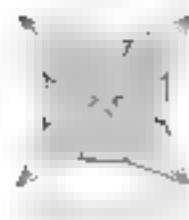
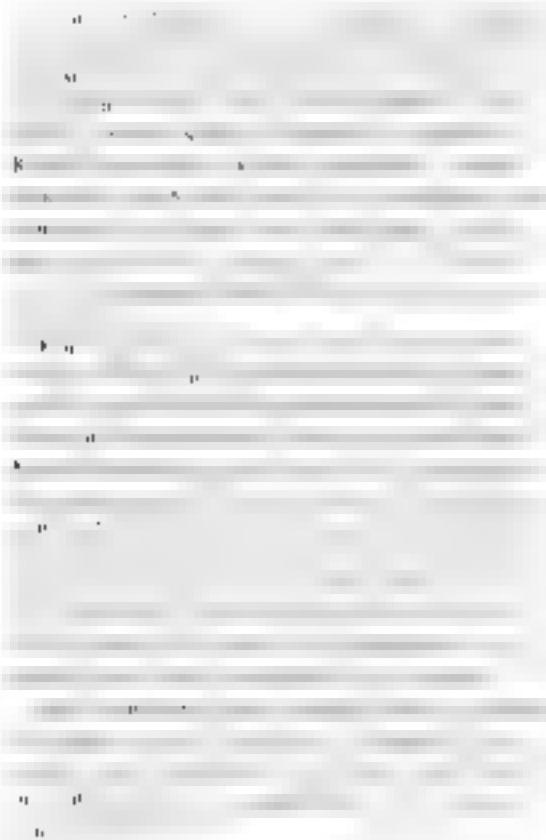


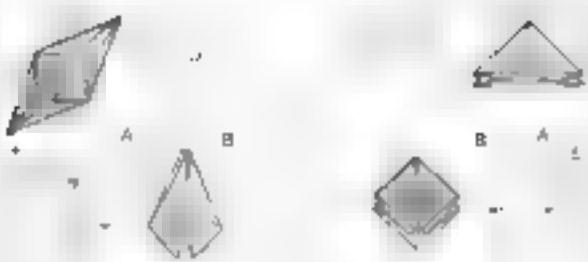
Traditional menko





Meaning of the Origami Bases





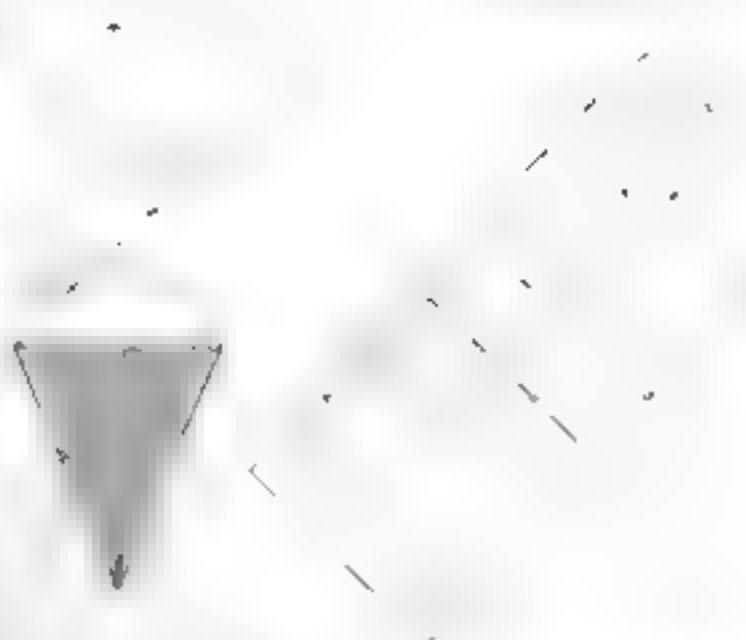
The Mackawa theory



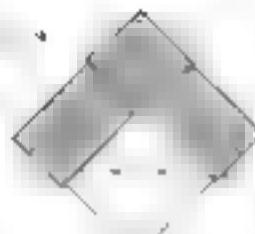
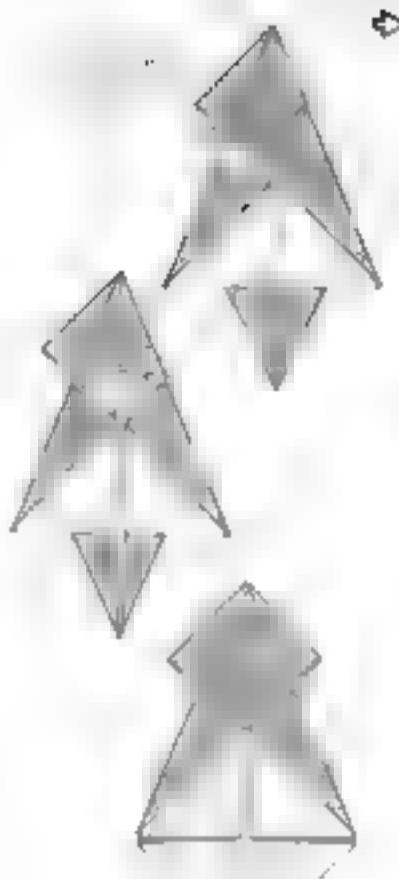
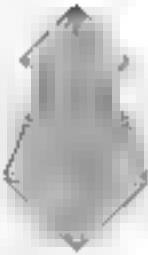
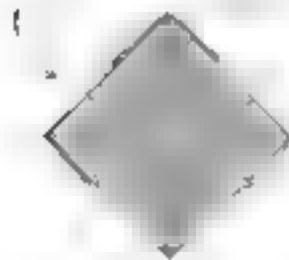
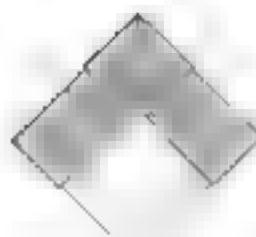
Application of the Mackawa theory

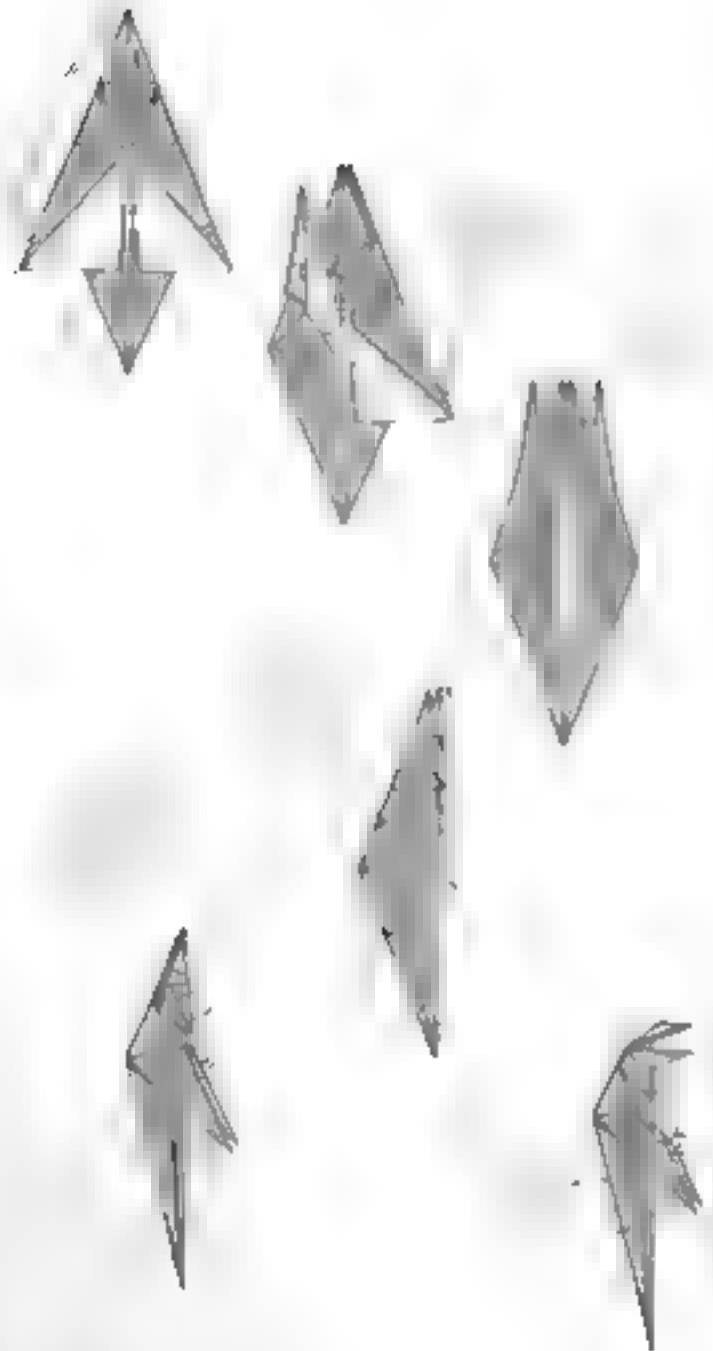


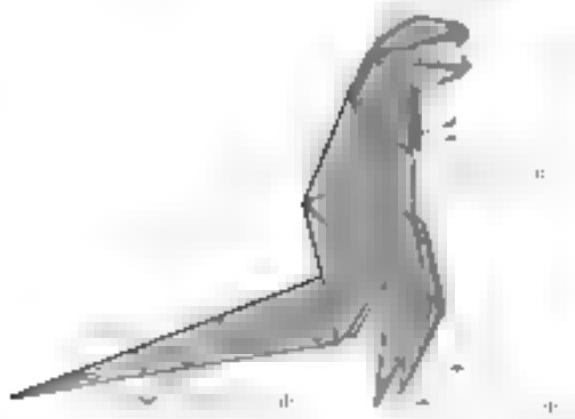
Tyrannosaurus— Application of the Maekawa Theory



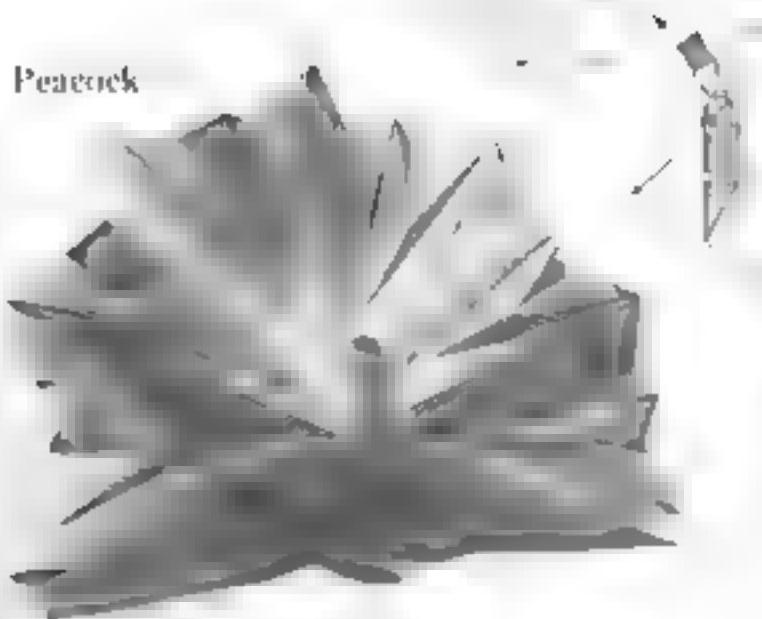
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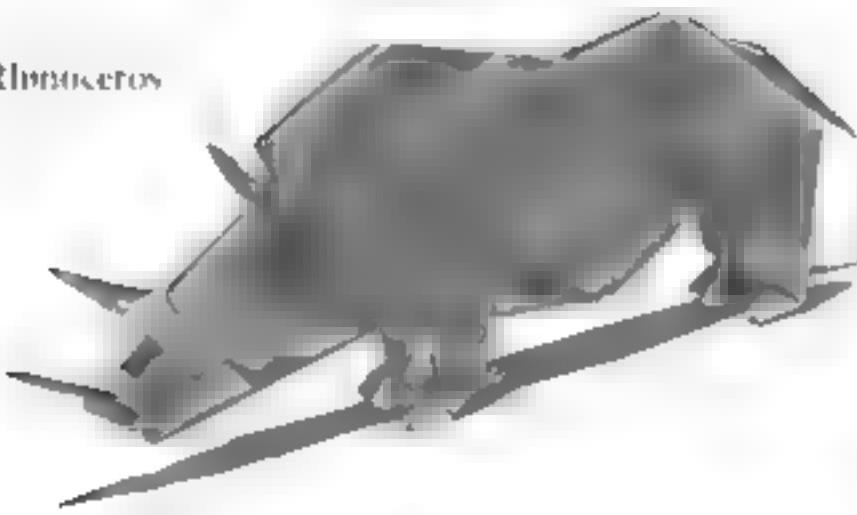


Peacock



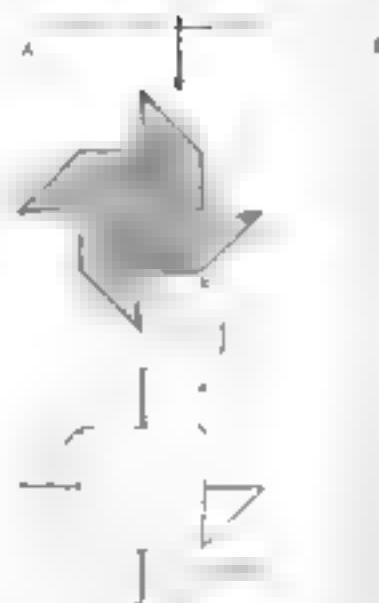


Rhinoceros



Order	Suborder	Family	Genus	Species	Common Name	Geographic Range	Habitat	Conservation Status
Mammalia								Extinct
								Extinct
								Extinct

Iso-area Folding (The Kawasaki Theory)

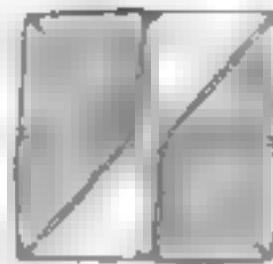
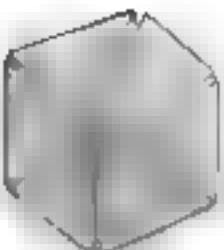


Square flat unit
(iso-area folding)

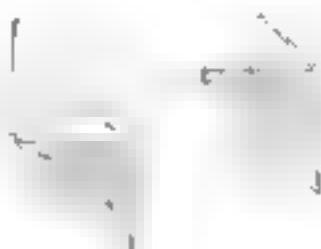
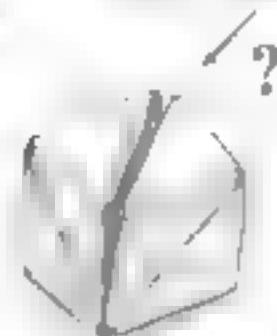


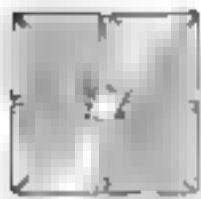


Puzzle Cube I

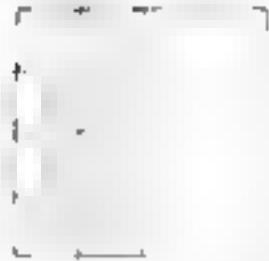
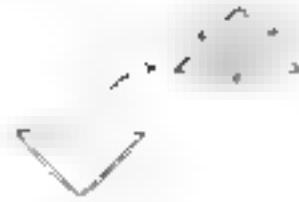
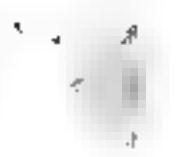
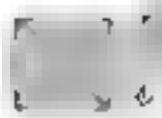
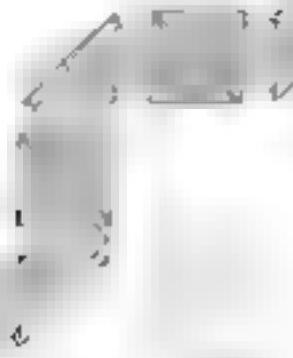
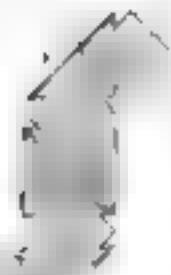
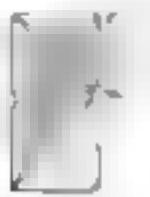


Right-triangular Flat Unit



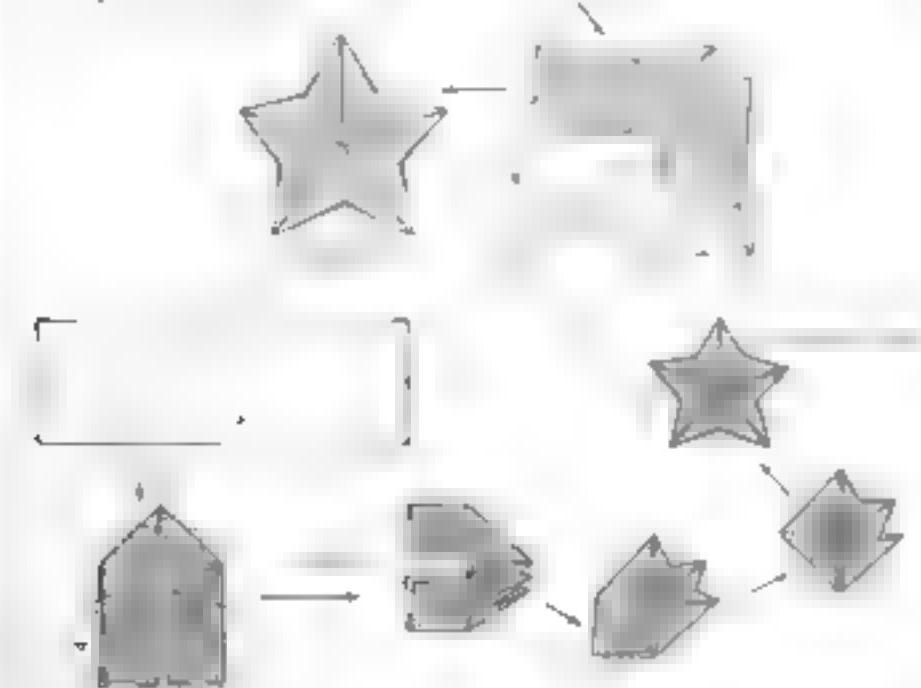


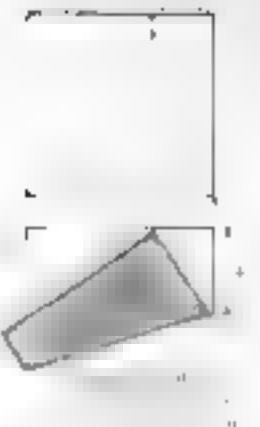
III



A Convenient Rectangle

Five-pointed star



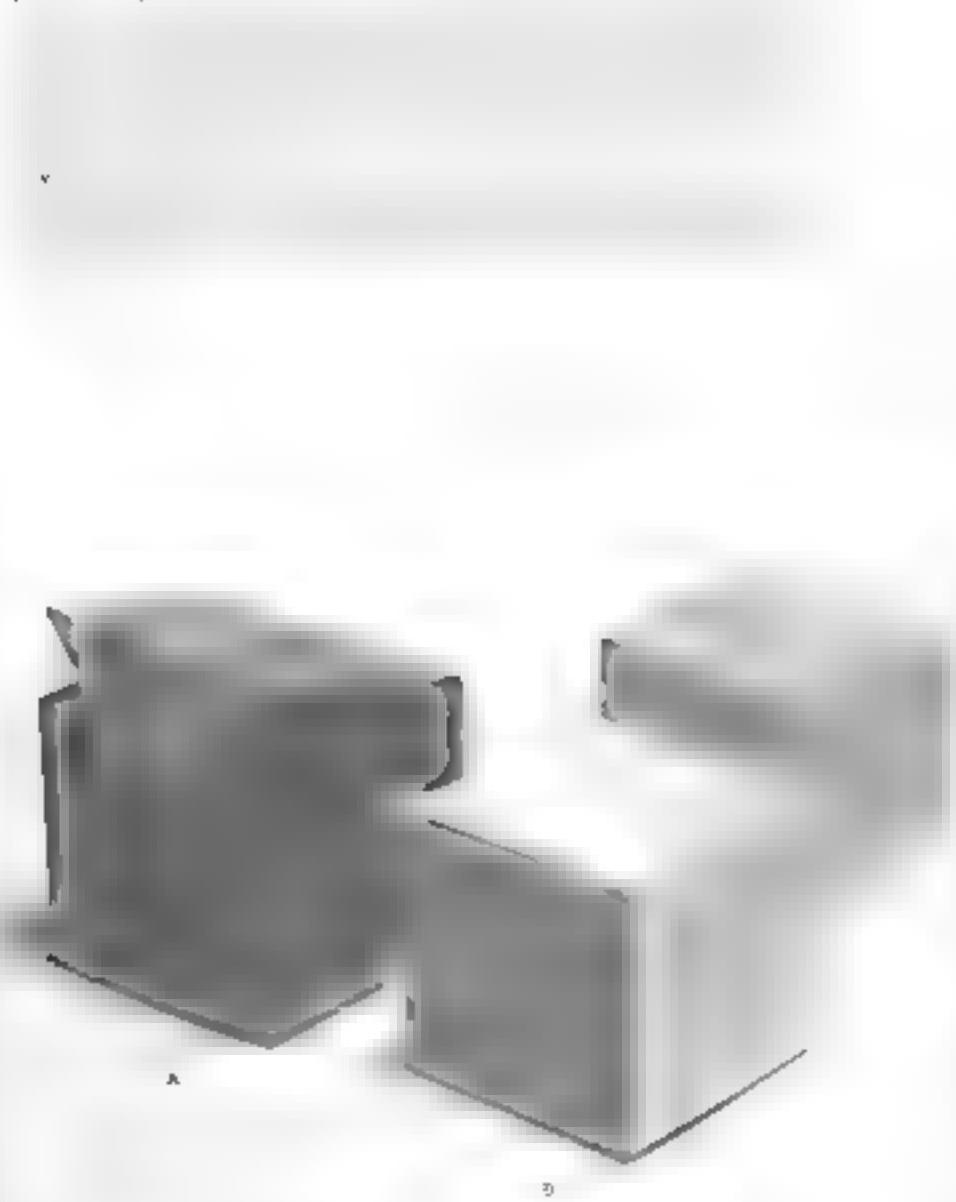


Puzzle cube (one rectangular sheet)



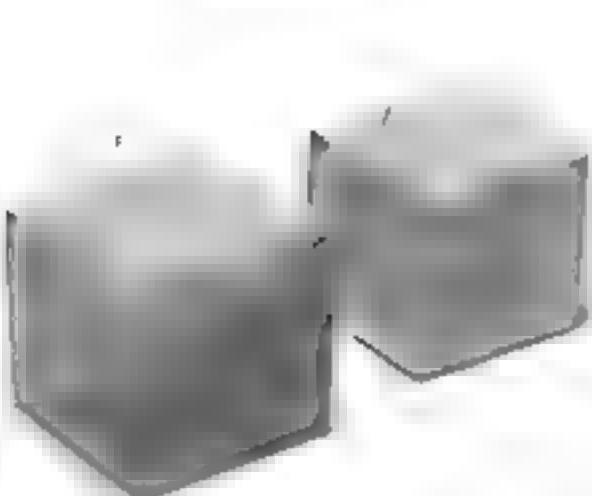
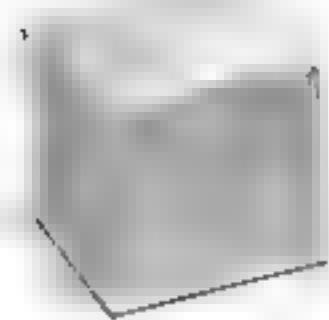
Puzzle Cube II

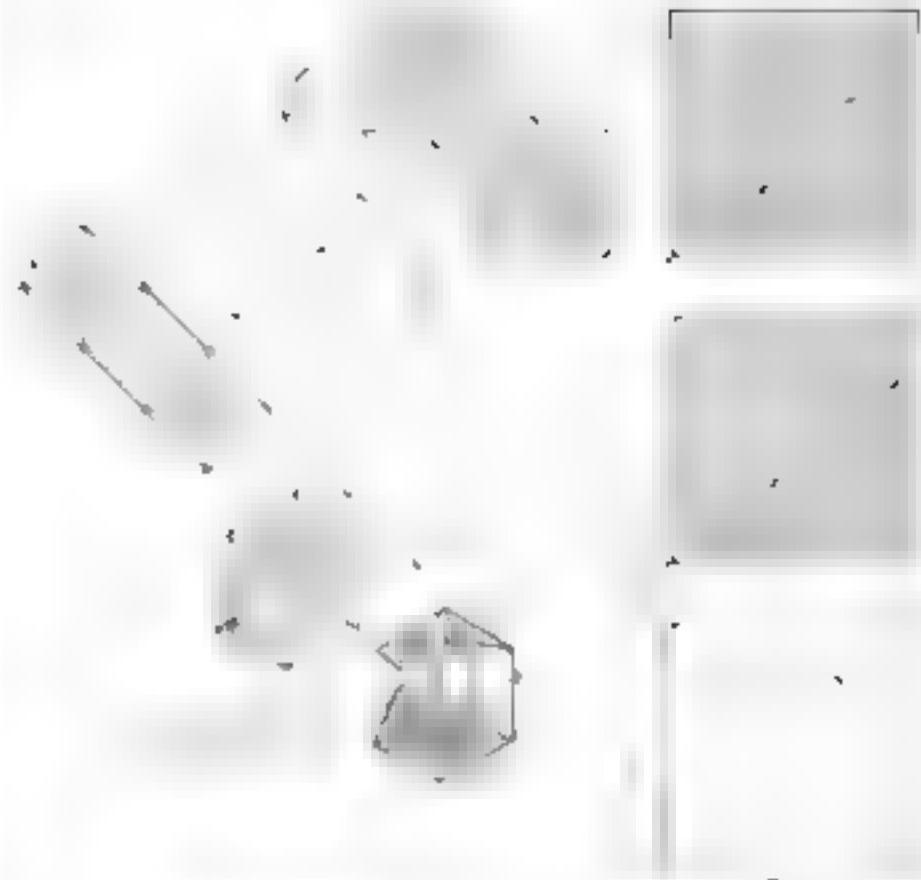
Figure 1



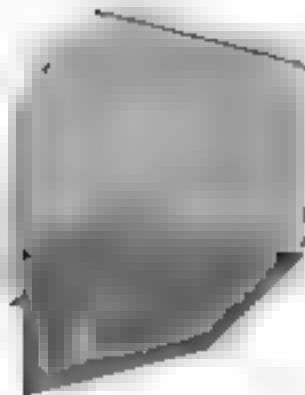
12
13

$$\frac{d}{dt} \left(\frac{1}{2} \|x(t)\|^2 \right) = -\gamma \|x(t)\|^2$$



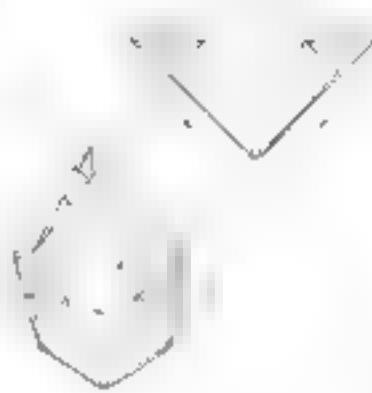
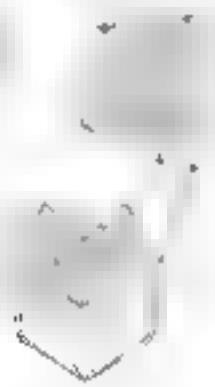
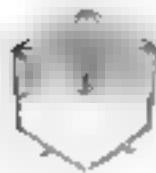
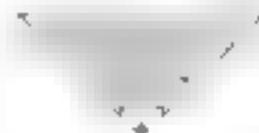
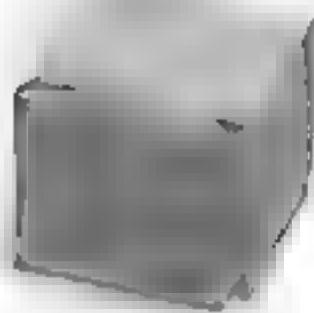
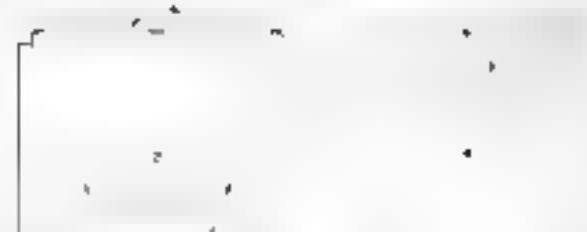


Cube - Bisection

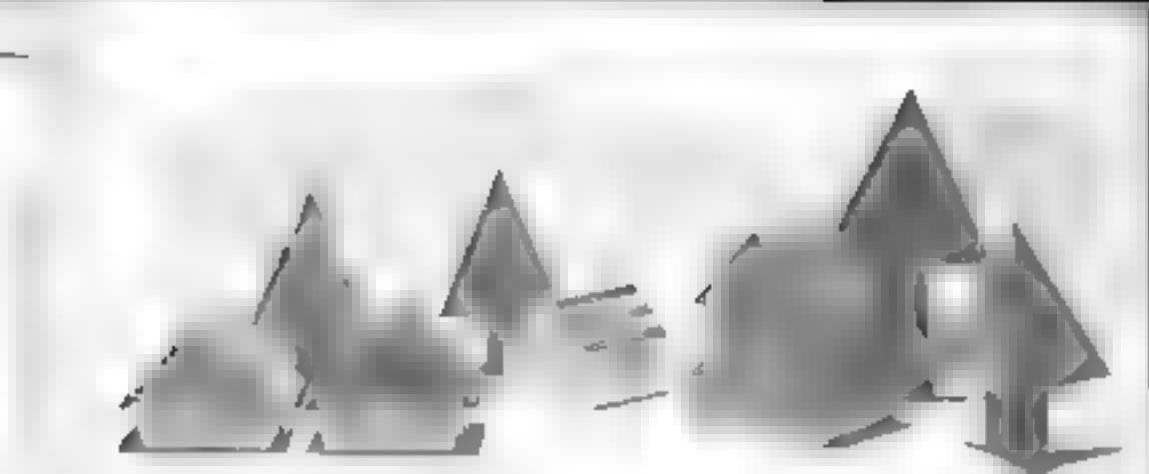


1
2
3
4
5
6
7
8

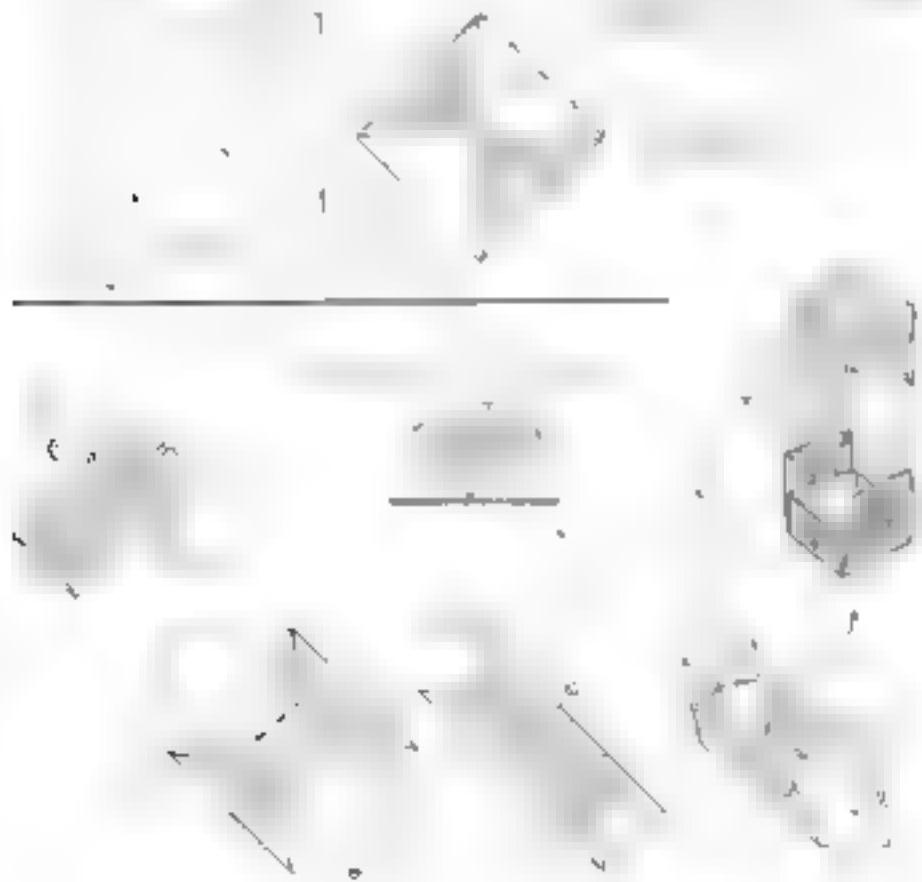
**Cube B—
Bisection II**



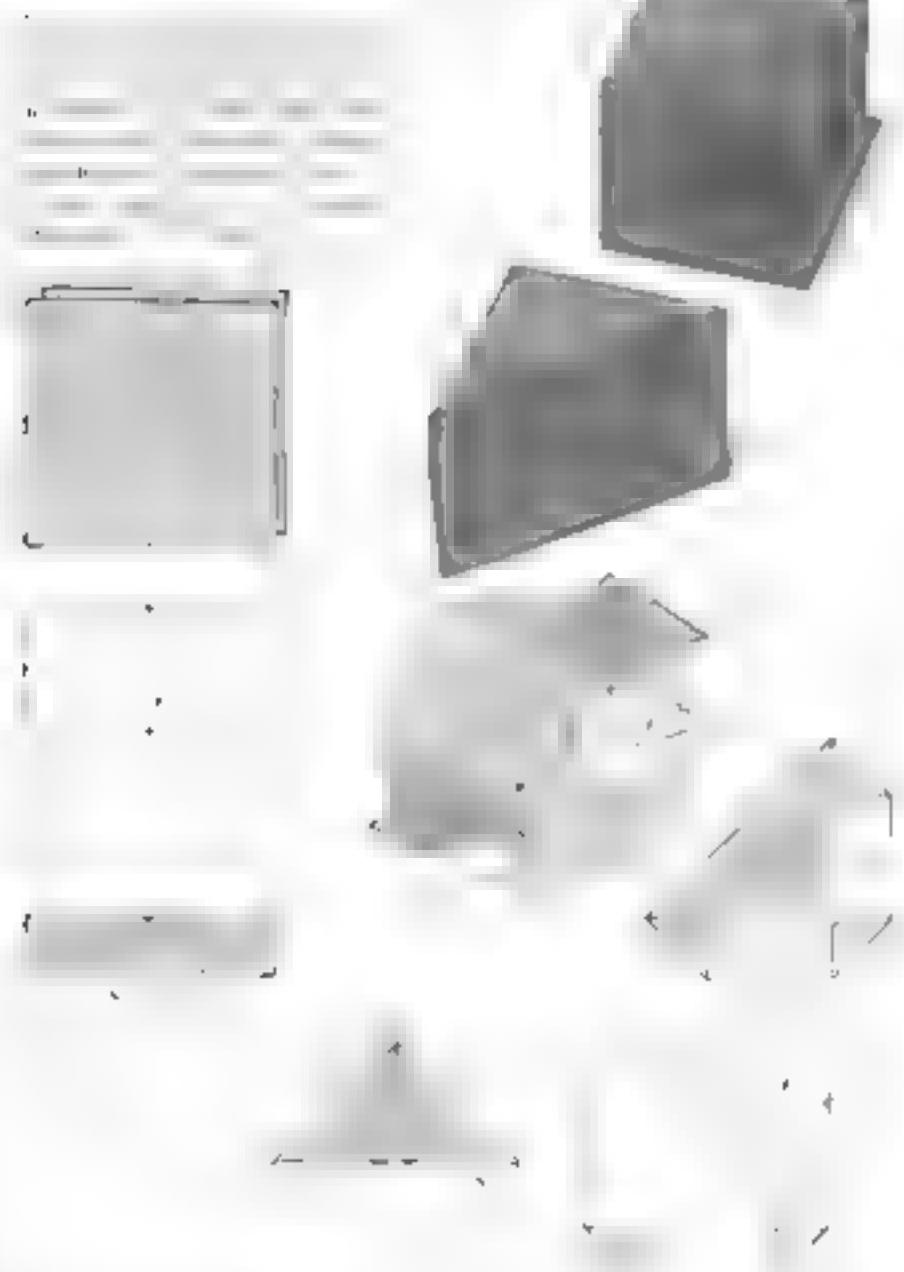


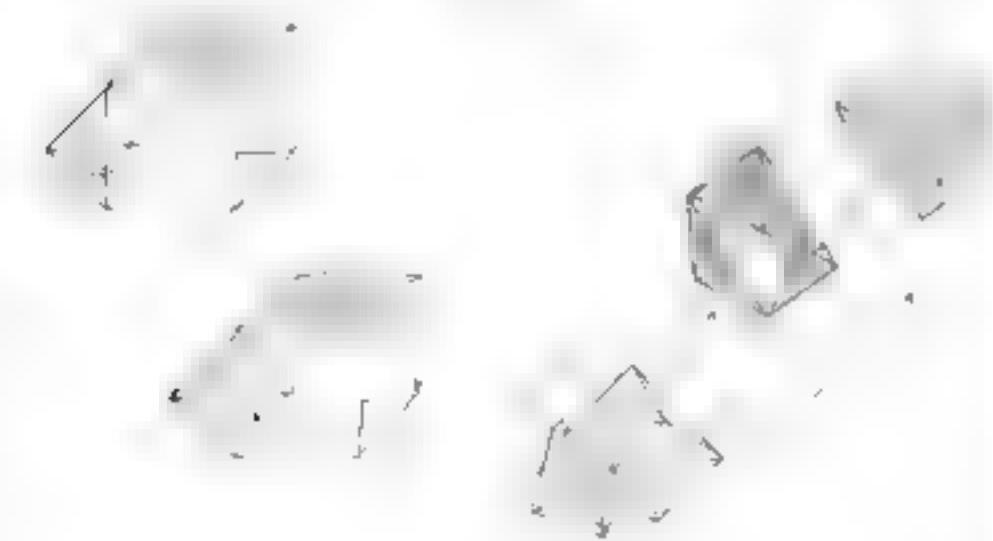
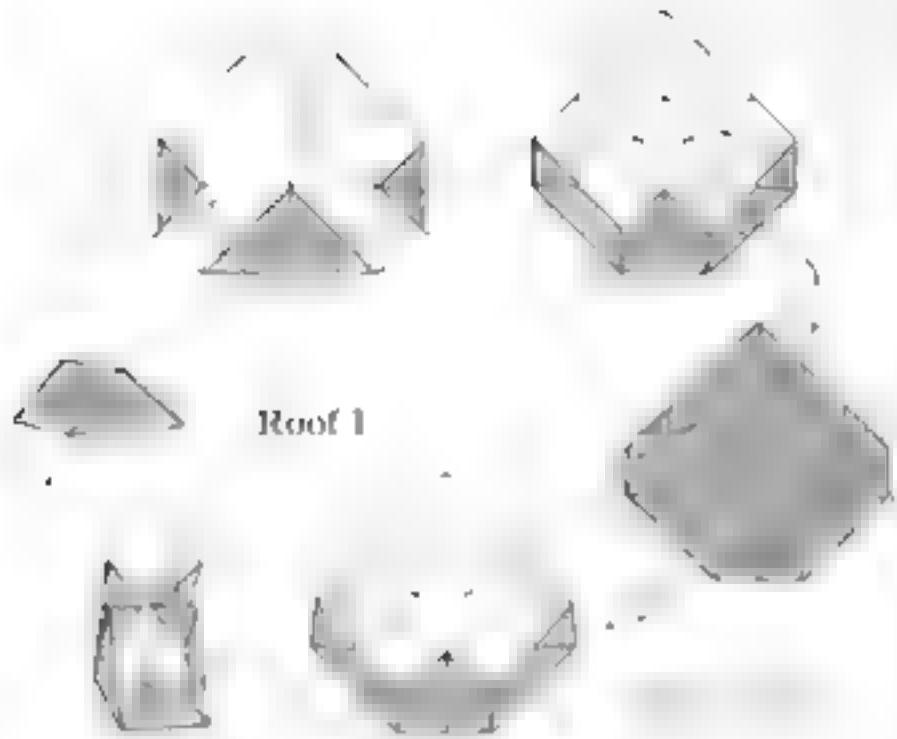


Two-tone treatment



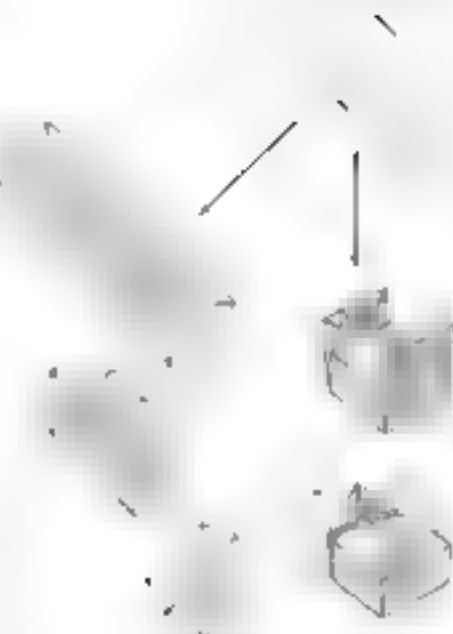
Cube D - Bisecting on the diagonal



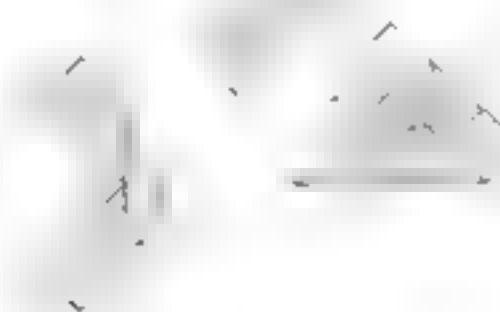


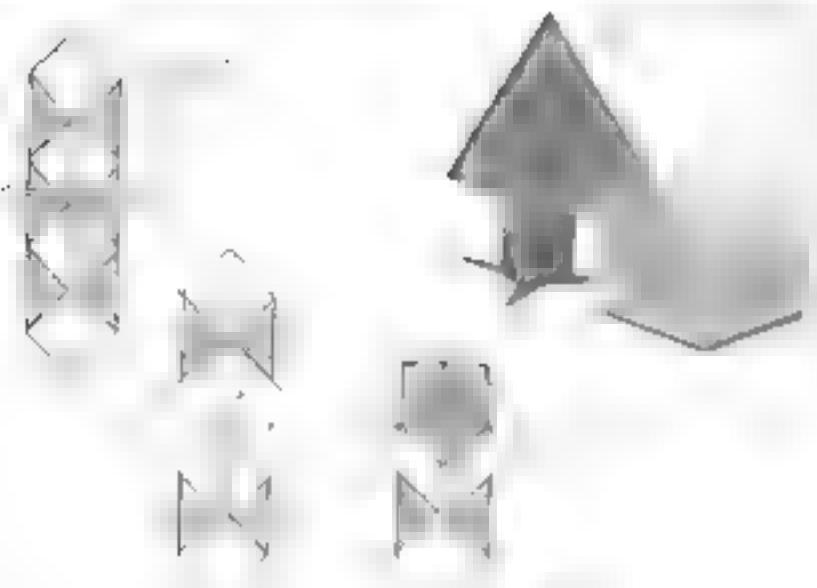
Lids for Elements

Rectangular lid
for cube D

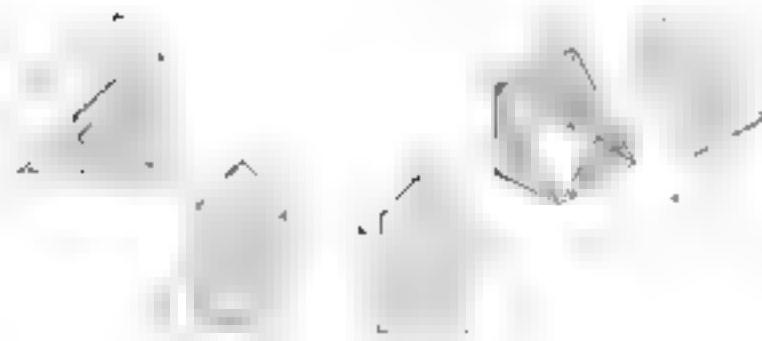
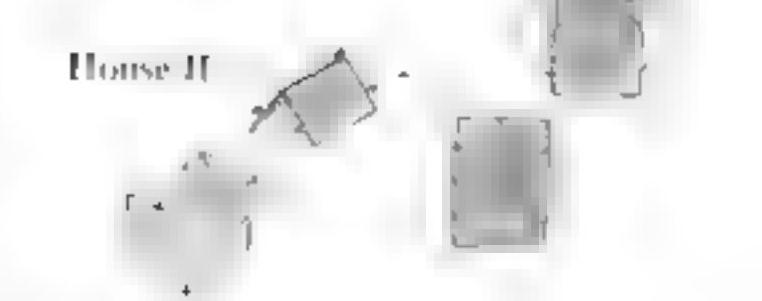


Square lid for cube C

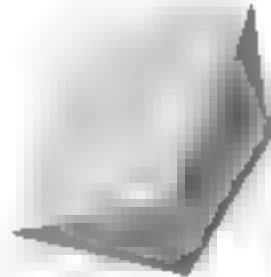
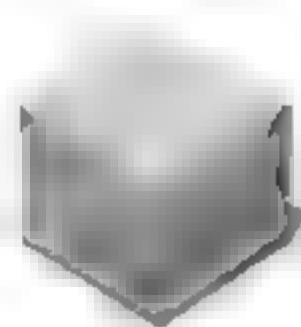
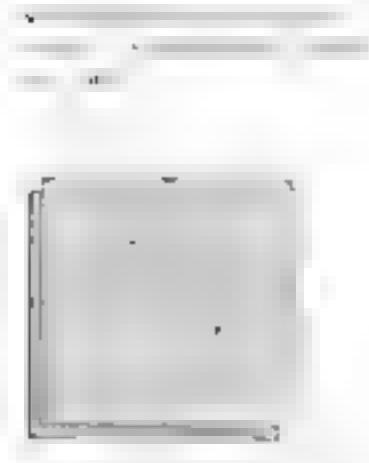




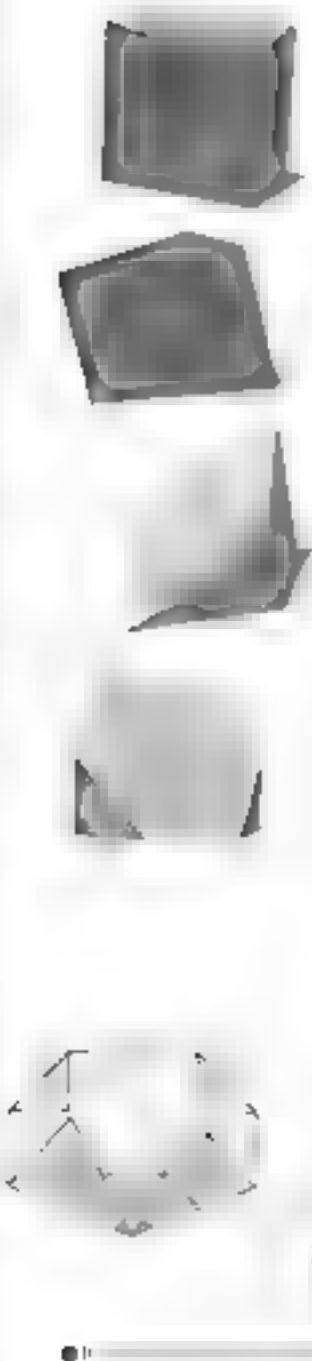
House II



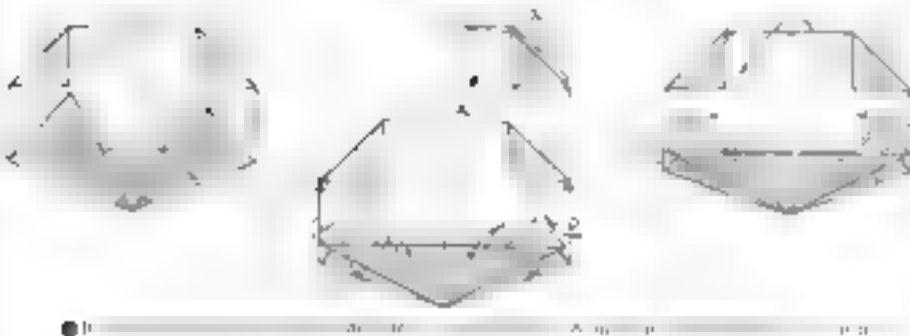
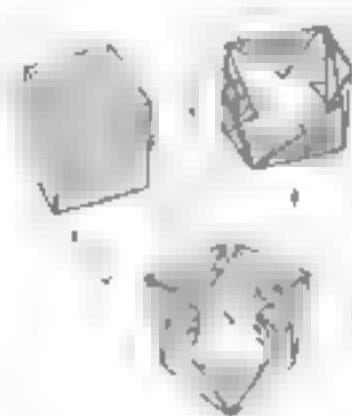
Cube F — Bisecting III



Handmade teaching materials

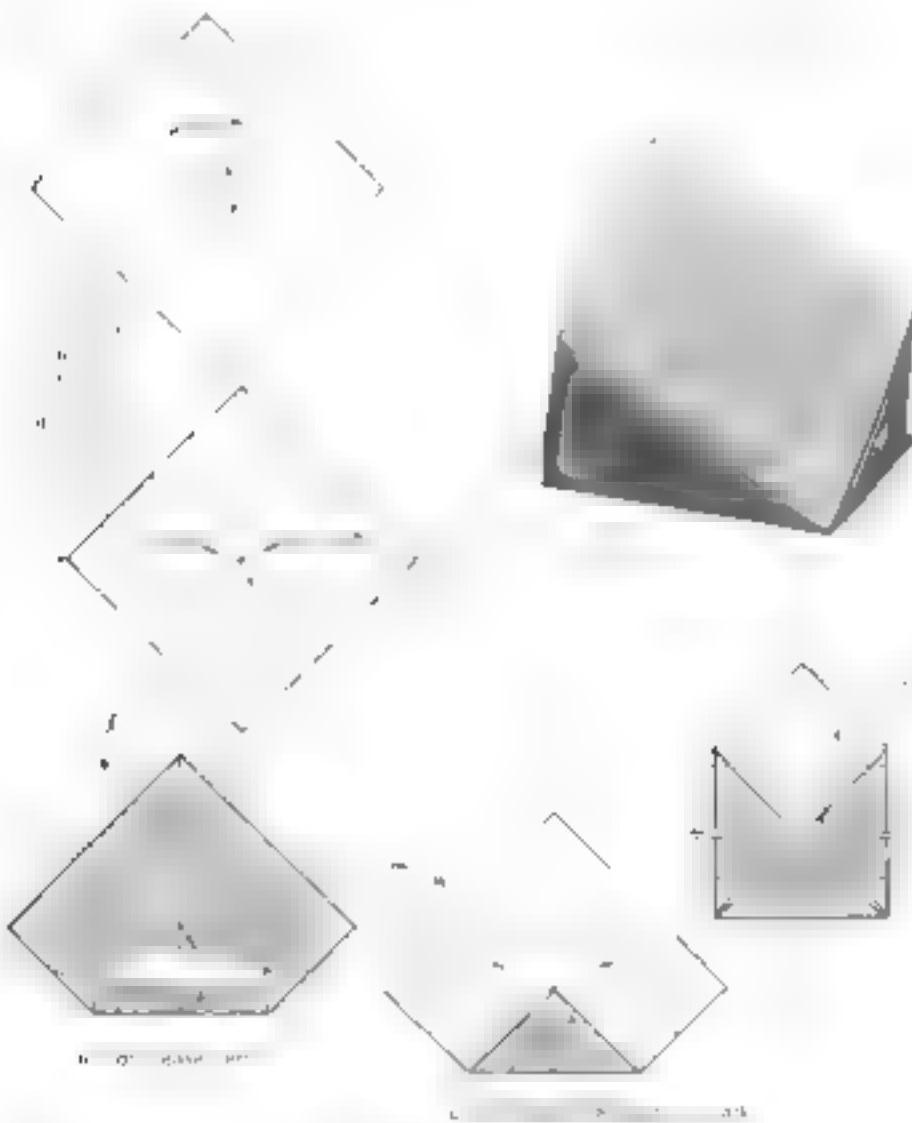


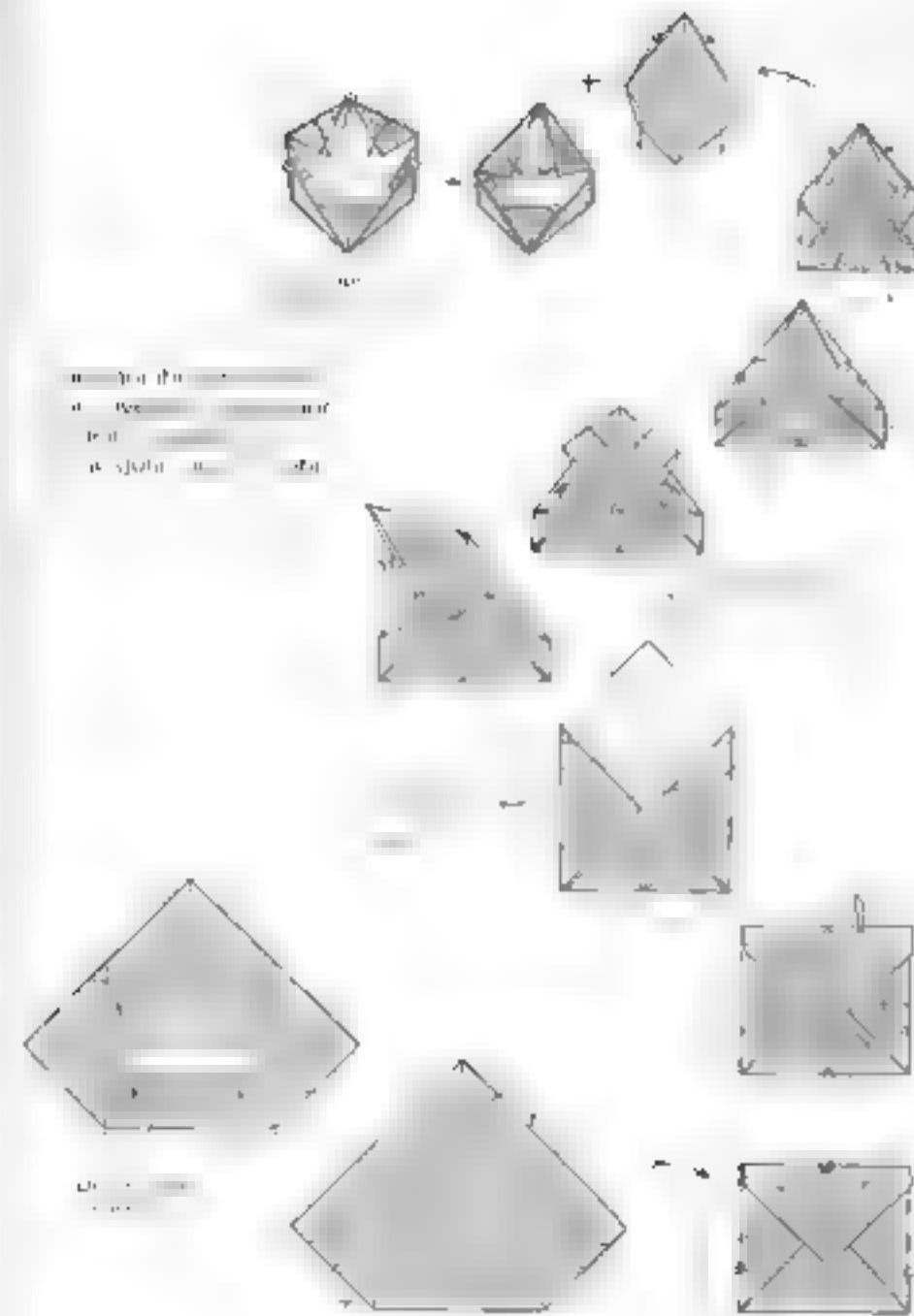
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
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V
W
X
Y
Z



Rhombic Lid for Cube F

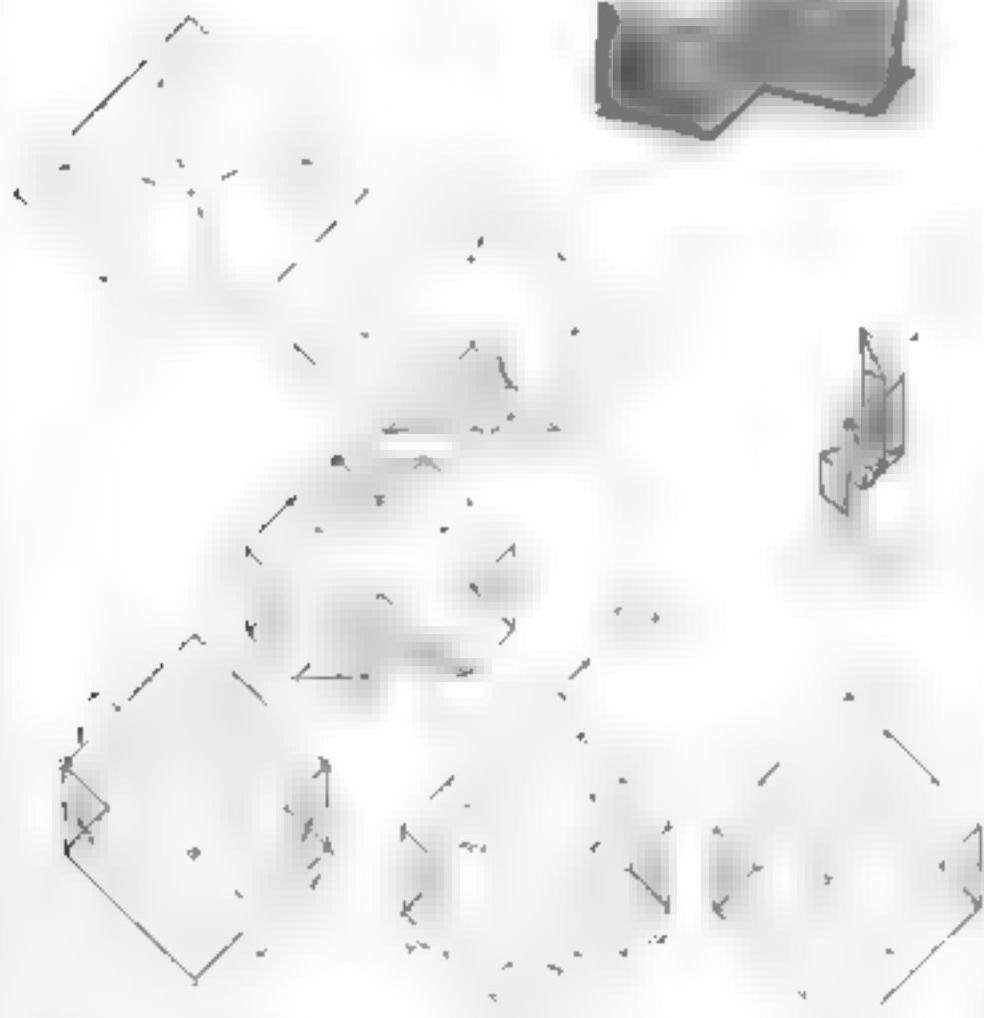
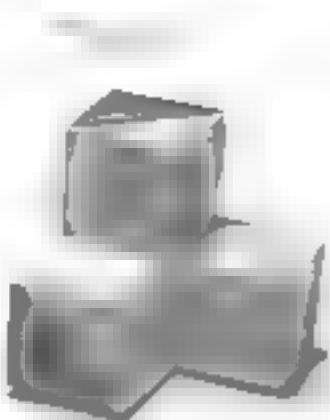
This is rhombic lid for cube F. It can be cut out and folded up to form a cube. The edges of the cube are labeled A, B, C, D, E, F, G, H.

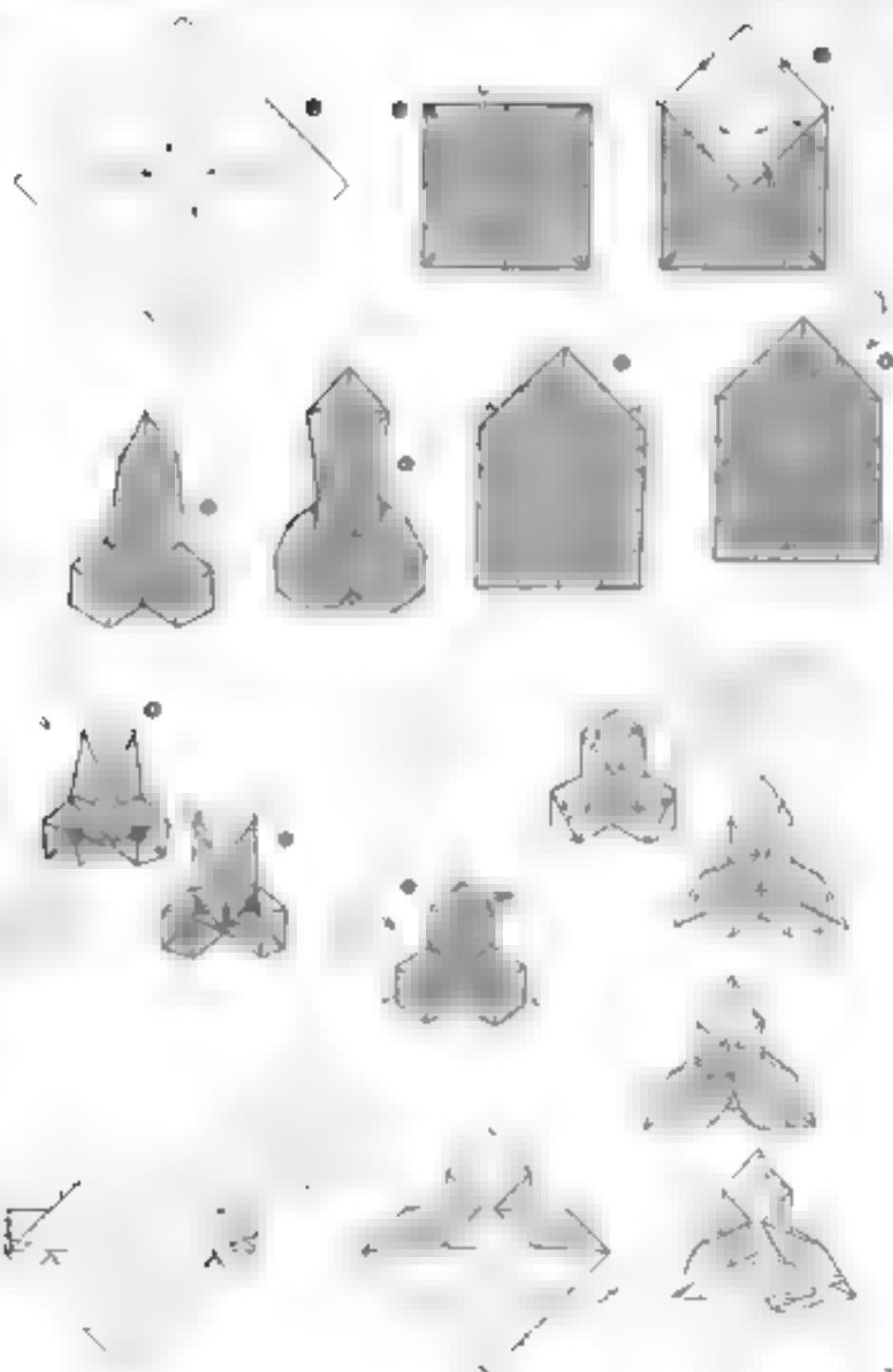




Building-block Bissection

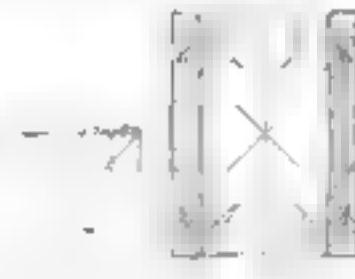
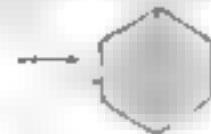
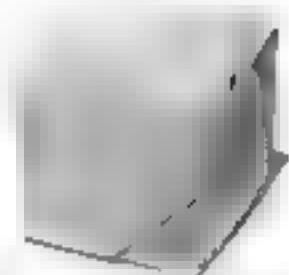
Ir - Ir
h - h
d - d
p - p
s - s
n - n
m - m
l - l
k - k
j - j
i - i
g - g
f - f
e - e
d - d
c - c
b - b
a - a



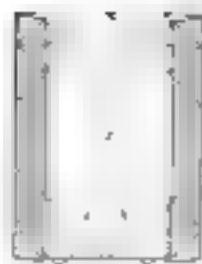
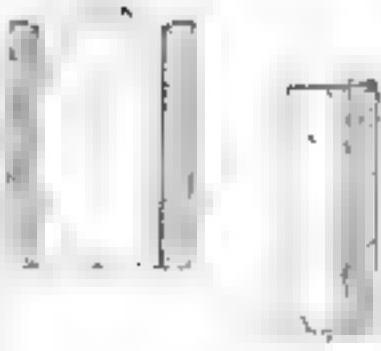
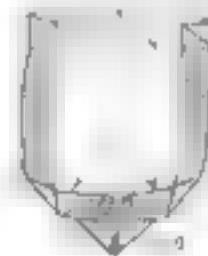
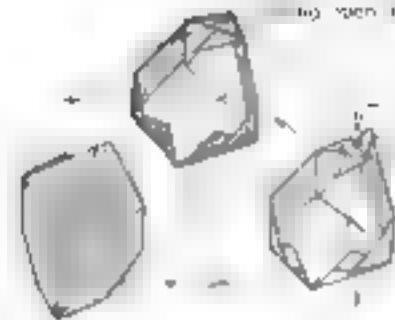


Making a Cube from a Cube with a Single Cut

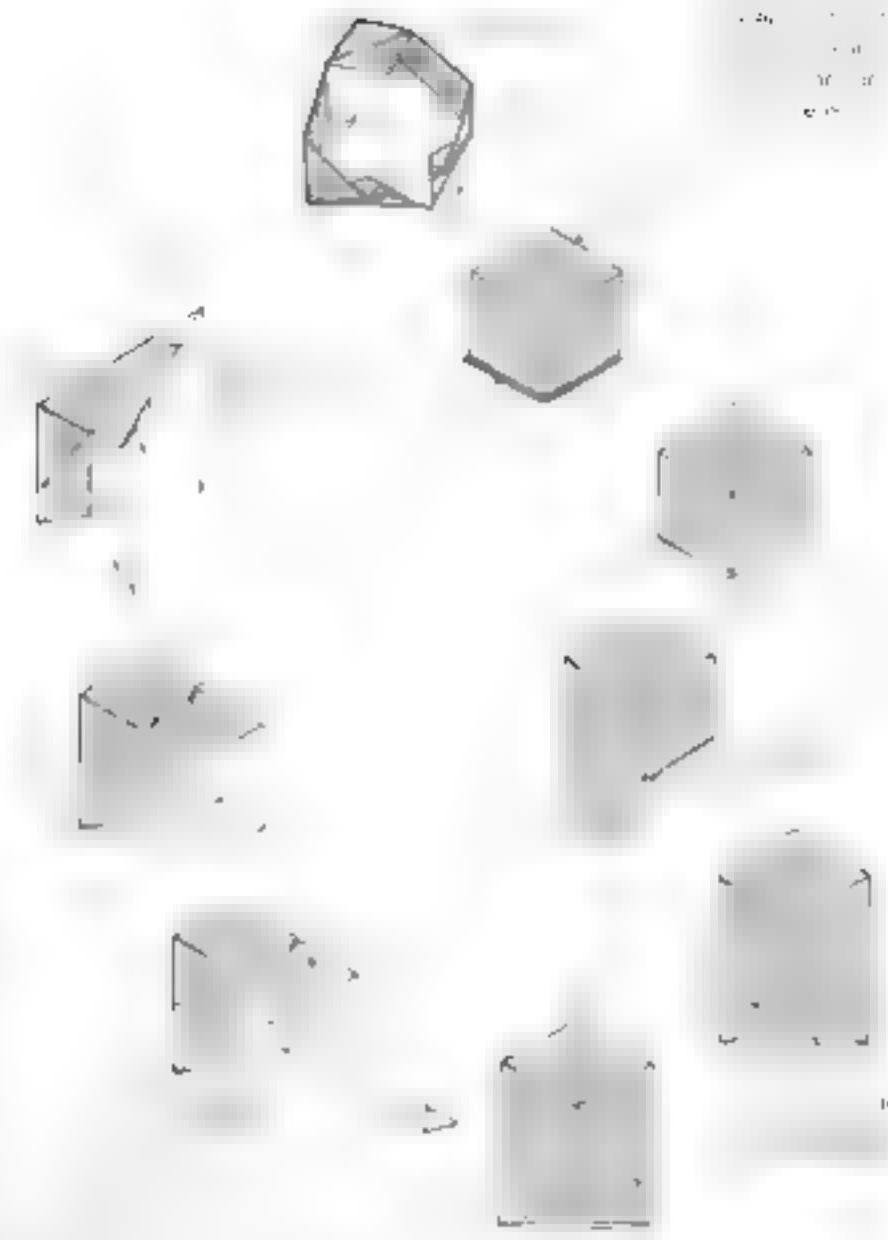
As a side note, if you do a
single cut through the
cube at the center of one of
the faces, it will produce two
cubes.



b) VACUUM TEST

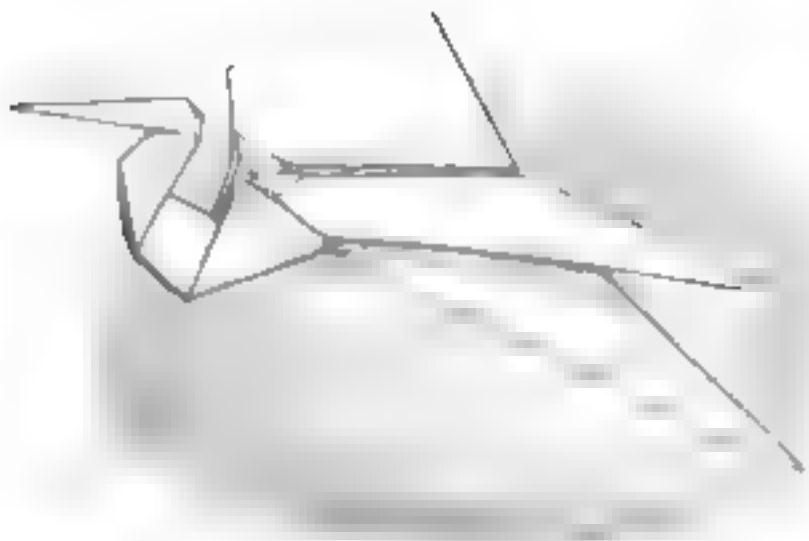


23. *Ob. 41. 01. 01. 01.*
+ 01. 01. 01. 01. 01.
+ 01. 01. 01. 01. 01.
+ 01. 01. 01. 01. 01.
+ 01. 01. 01. 01. 01.
+ 01. 01. 01. 01. 01.

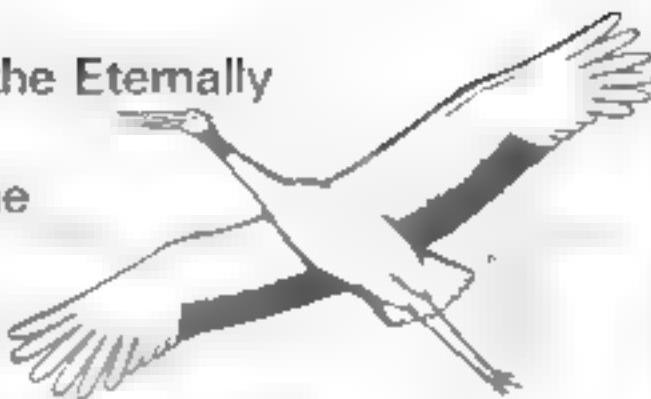


Chapter 3

Fly, Crane, Fly!

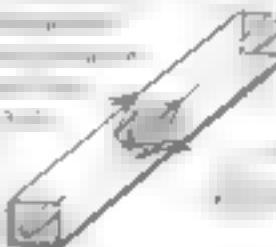


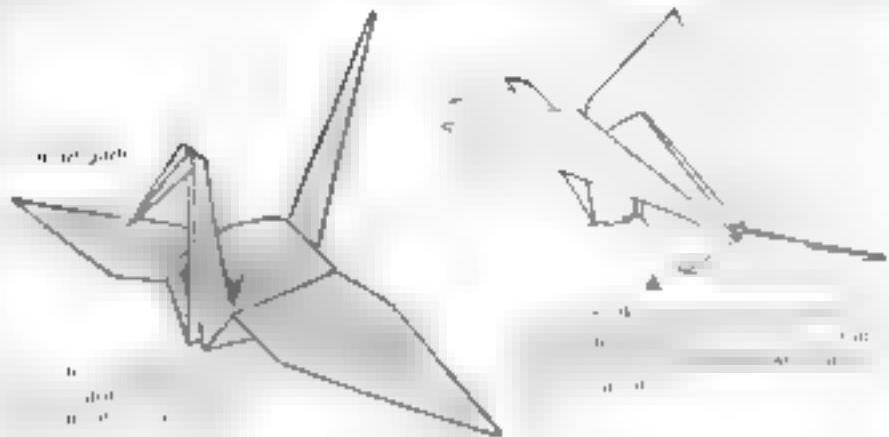
Challenging the Eternally Fascinating Origami Crane



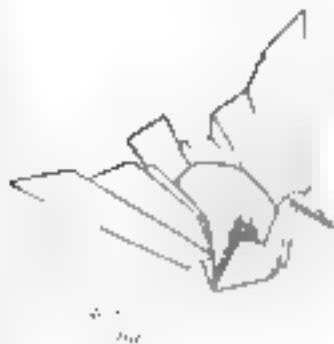
Challenge 1

The image shows a page from a handwritten notebook. The text is mostly illegible due to redaction. There are several hand-drawn diagrams: a large circle with a curved arrow inside; a smaller circle with a cross inside; a multi-armed star-like shape with radiating lines; and a pencil-like object with a circular eraser containing a sketch of a face.





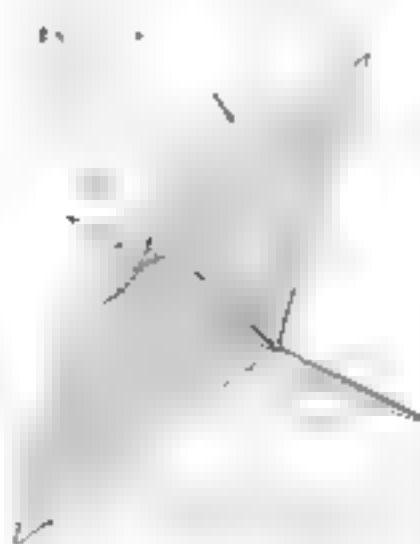
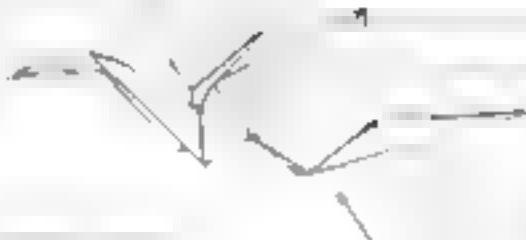
Challenge II



New Enthusiasm

Challenge III

- A. b
- B. c
- C. d
- D. e
- E. f
- F. g
- G. h
- H. i
- I. j
- J. k
- K. l
- L. m
- M. n
- N. o
- O. p
- P. q
- Q. r
- R. s
- S. t
- T. u
- U. v
- V. w
- W. x
- X. y
- Y. z



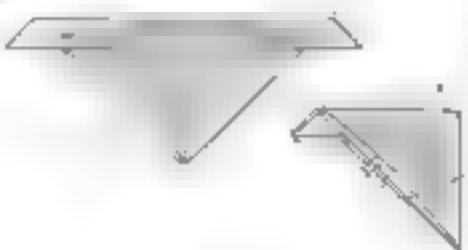
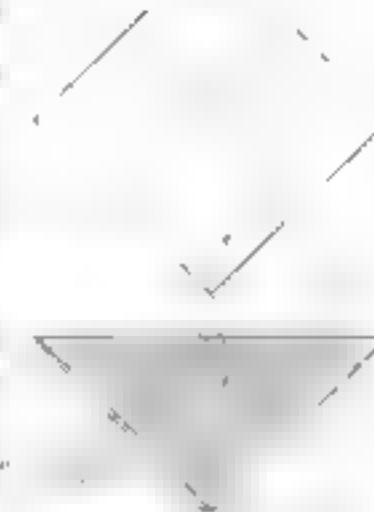
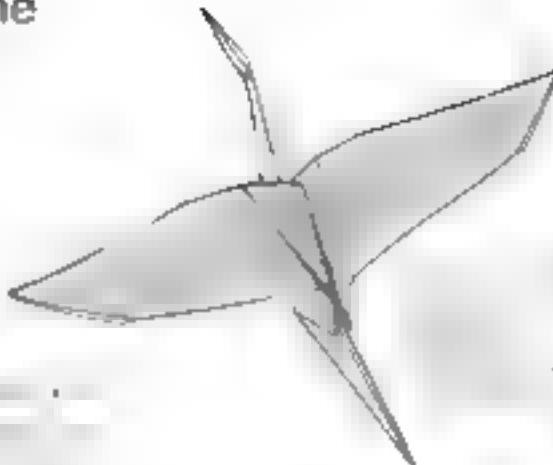
$\text{P} = 0.000000000000000$

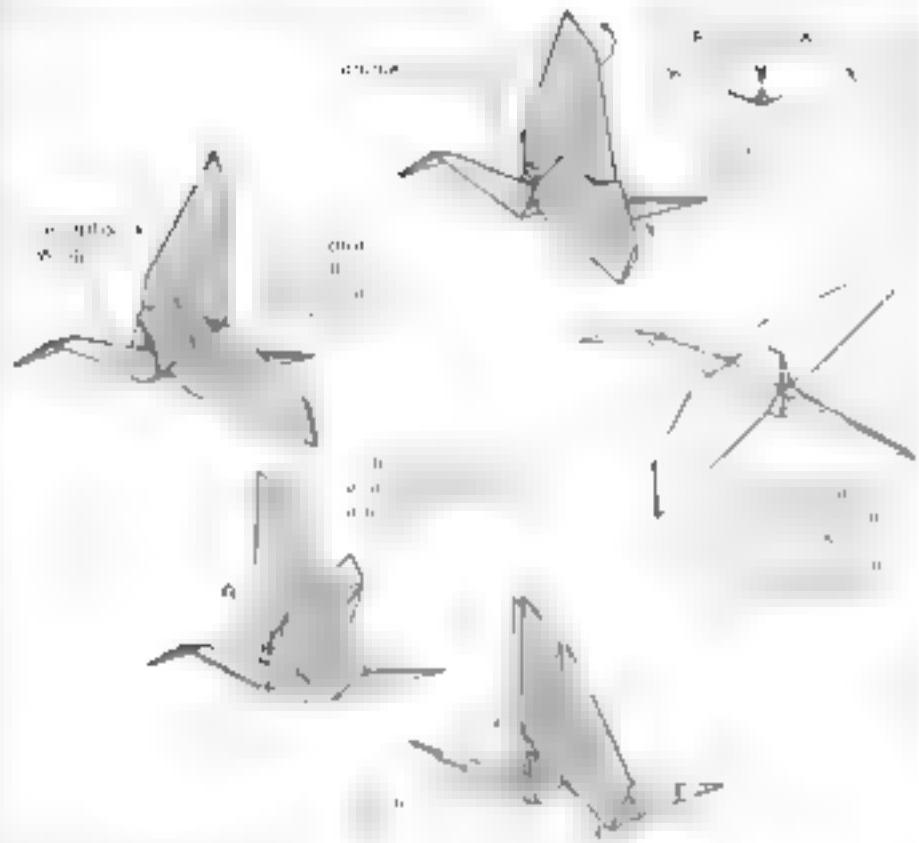
n

Challenging the Challengers

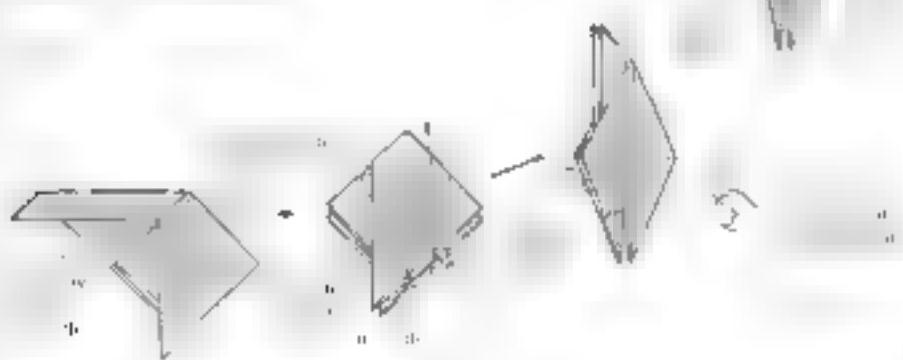
Flying crane No. 1

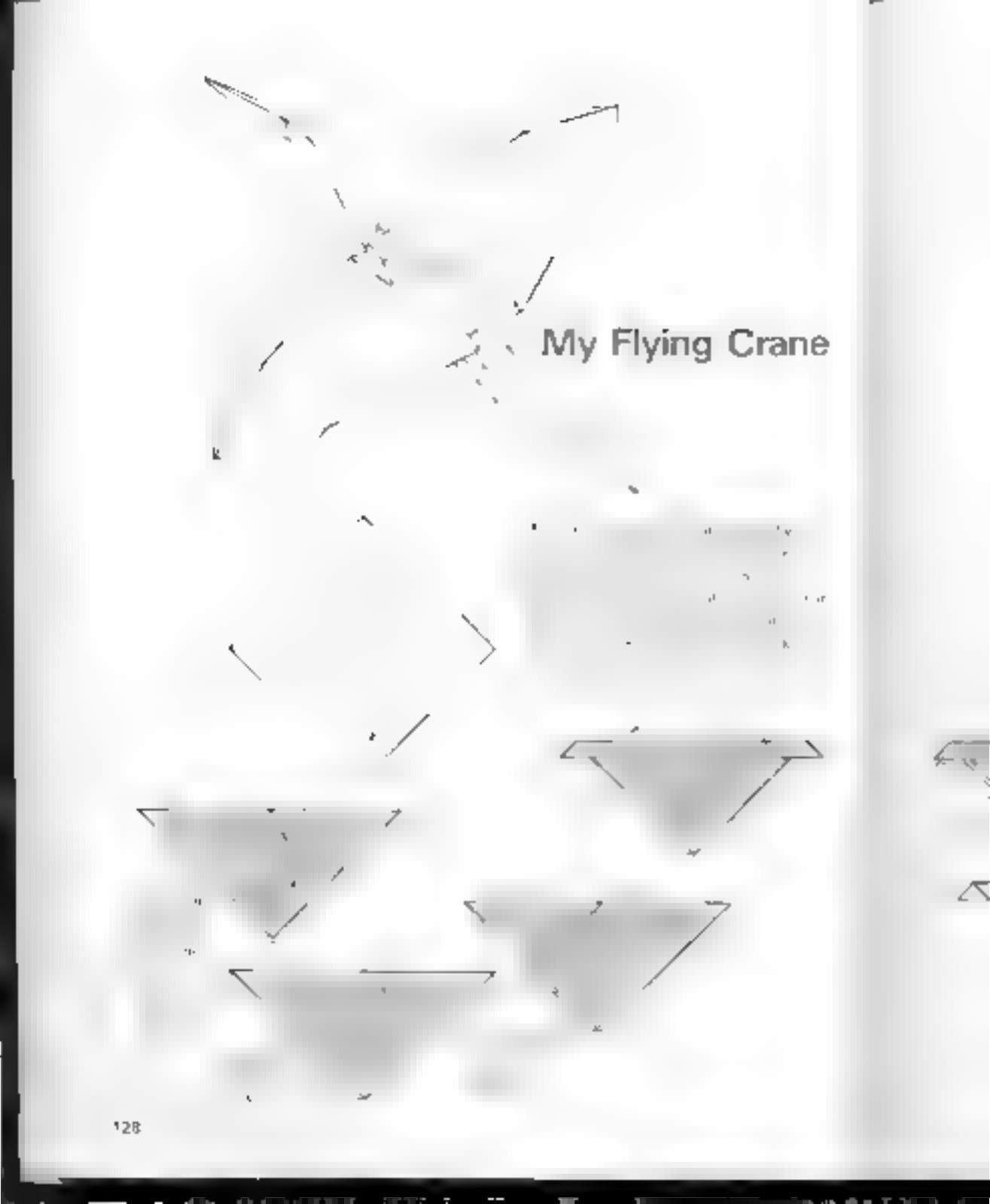
After you have made a
model of the flying crane,
try to make it fly.
Now, if you want to
make your model
fly, you will need
the following parts:
A wooden board
about 12 inches long
and 6 inches wide;
Nylon Yarn or
string about 12 feet
long; two small
pins; a piece of
thin wire about
12 inches long;
a piece of
thin wire about
12 inches long;
Scissors; glue
and a pencil.
First, draw a
triangle on the
wooden board
about 6 inches
wide at the base
and 12 inches
high. Then
cut out the
triangle.





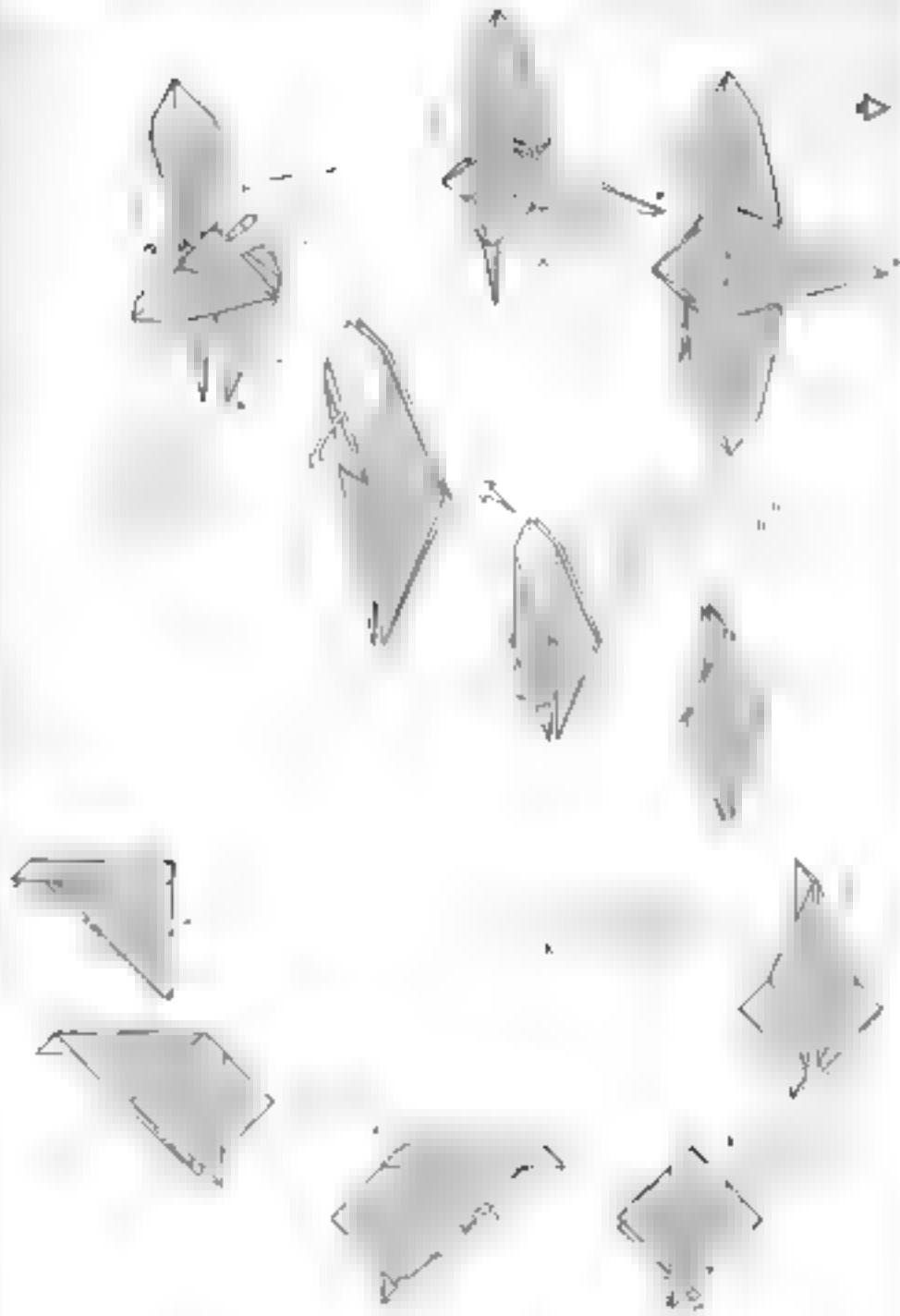
A 6.0
 d d 25.0
 M μ 0
 d d 0.0 0.0
 0 0 0.0 0.0 0.0
 0 0 0.0 0.0 0.0
 0 0 0.0 0.0 0.0

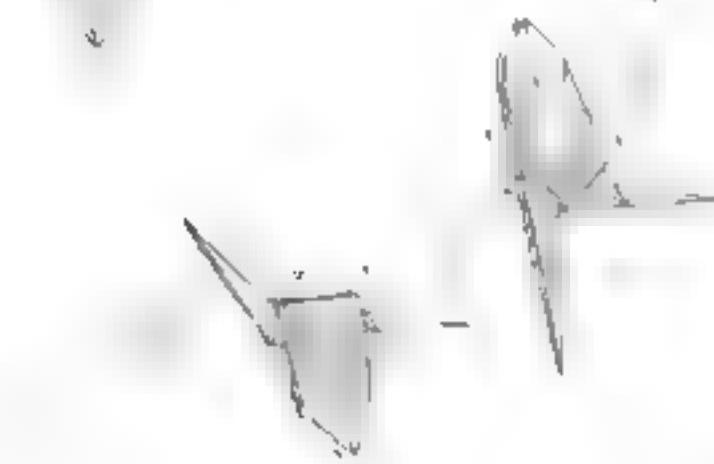
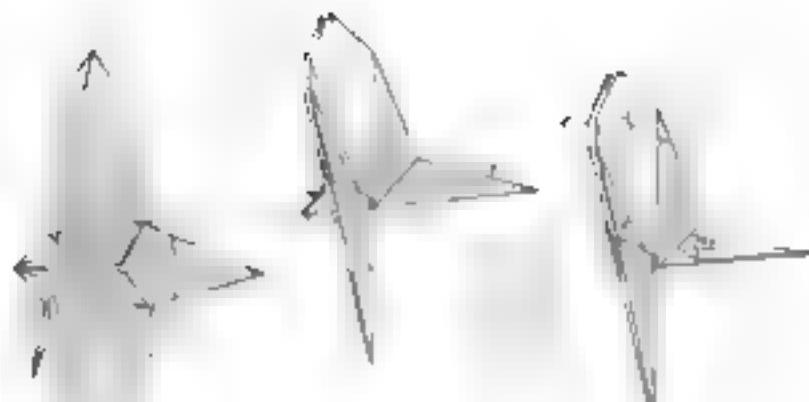




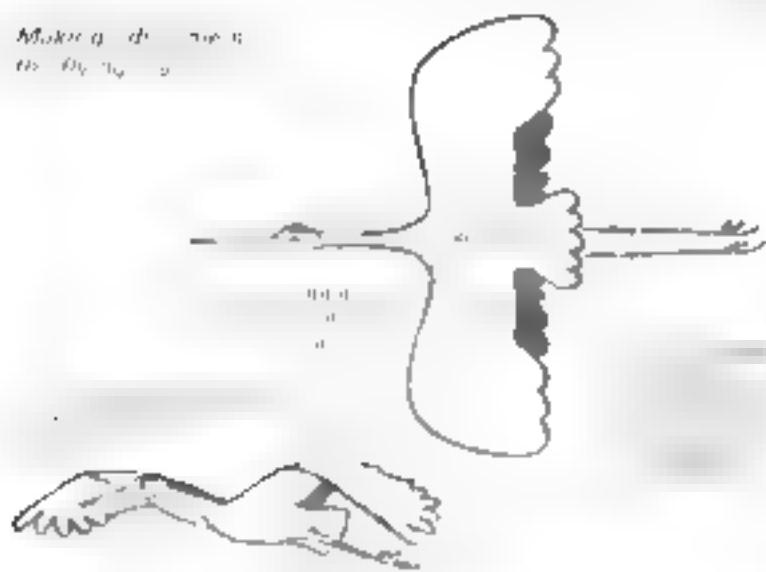
My Flying Crane

ane





Making $\theta = \pi$ &
 $\theta_1 = \theta_2 = \pi$



Making $\theta = \pi$ &	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
1	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
2	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
3	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
4	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
5	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
6	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
7	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
8	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
9	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$
10	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$	$\theta_1 = \pi$	$\theta_2 = \pi$	$\theta = \pi$

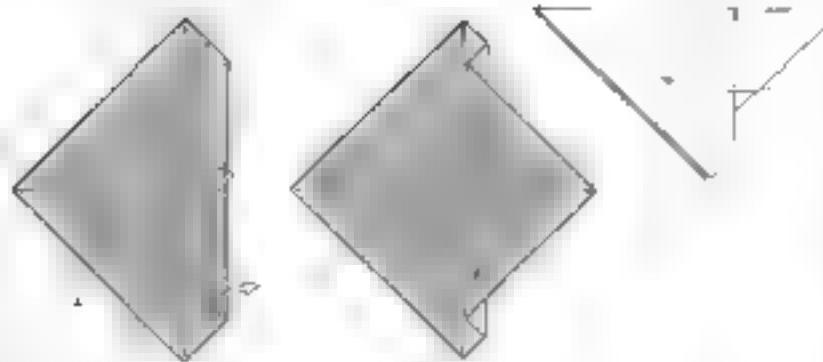
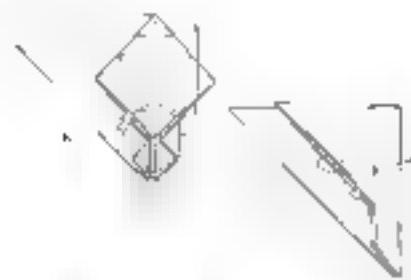
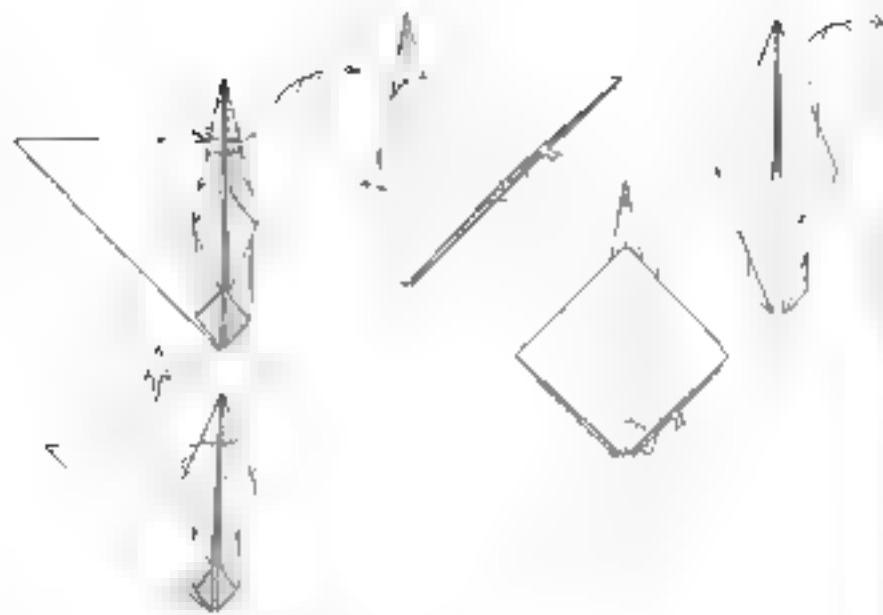


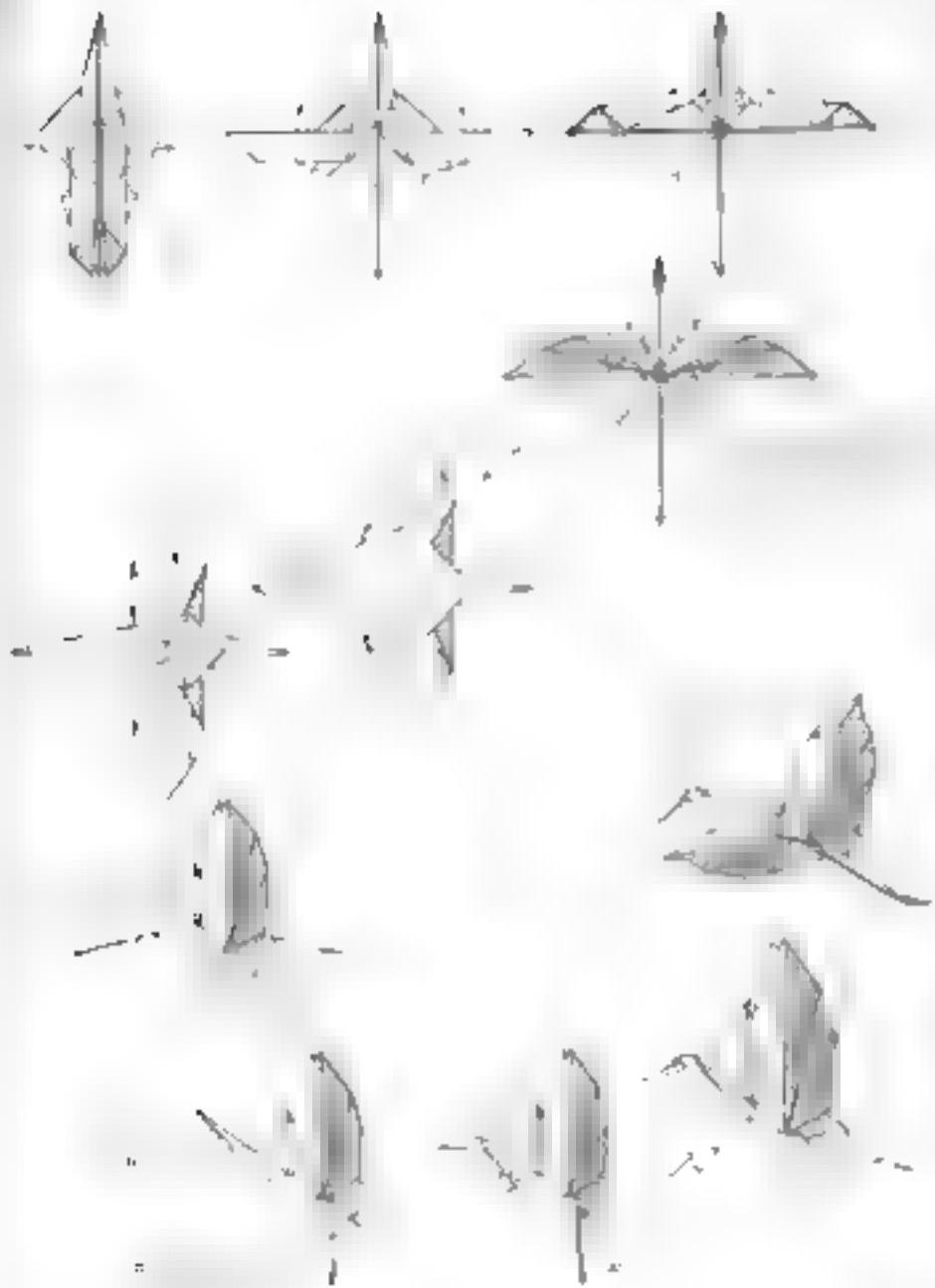
Flying White Heron



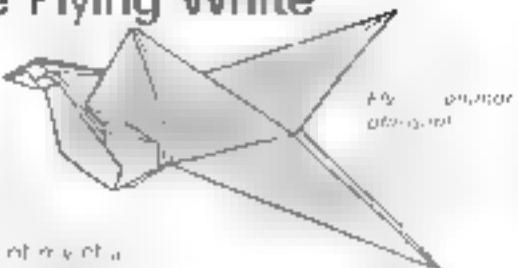
Crane in flight





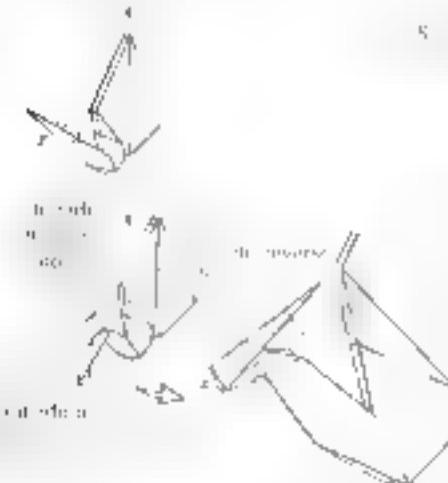
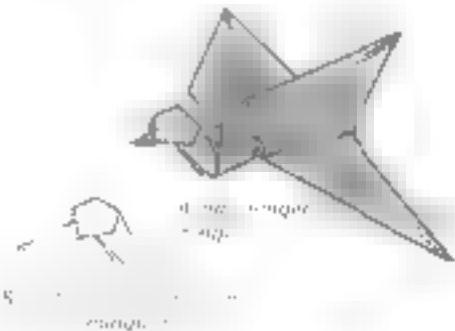


Variations on the Flying White Heron

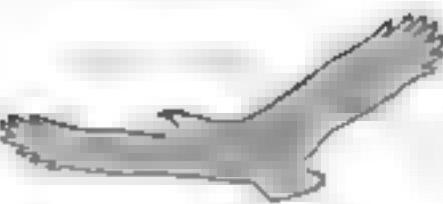


The heron's long neck and legs enable it to fly with its head tucked down. This is typical for birds that fly over water or land. Although the heron's long legs are not very strong, they are very useful when it comes to landing. The long legs of a plover, however, allow it to run with its head down without getting stuck in the mud. This is because the plover's long legs are much stronger than those of the heron.

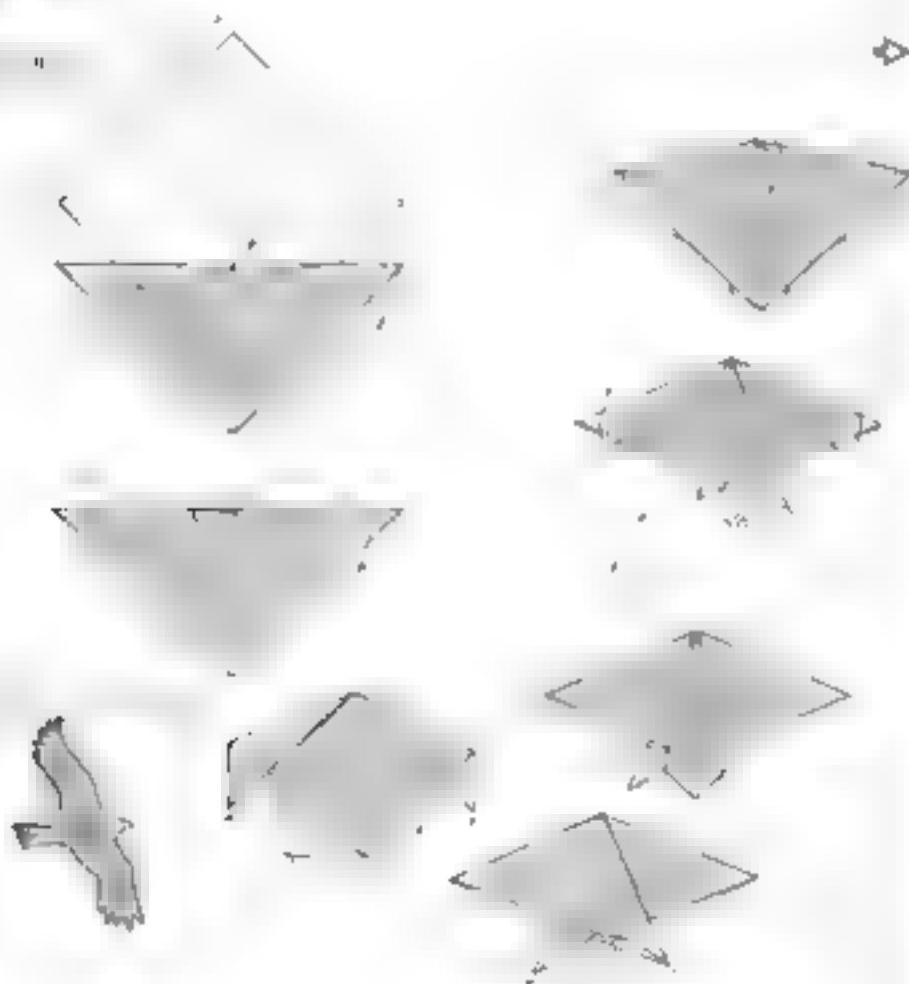
Minimum Flight Speed:
Wing position: 10 m/s
Body position: 10 m/s
Head position: 10 m/s
Legs position: 10 m/s

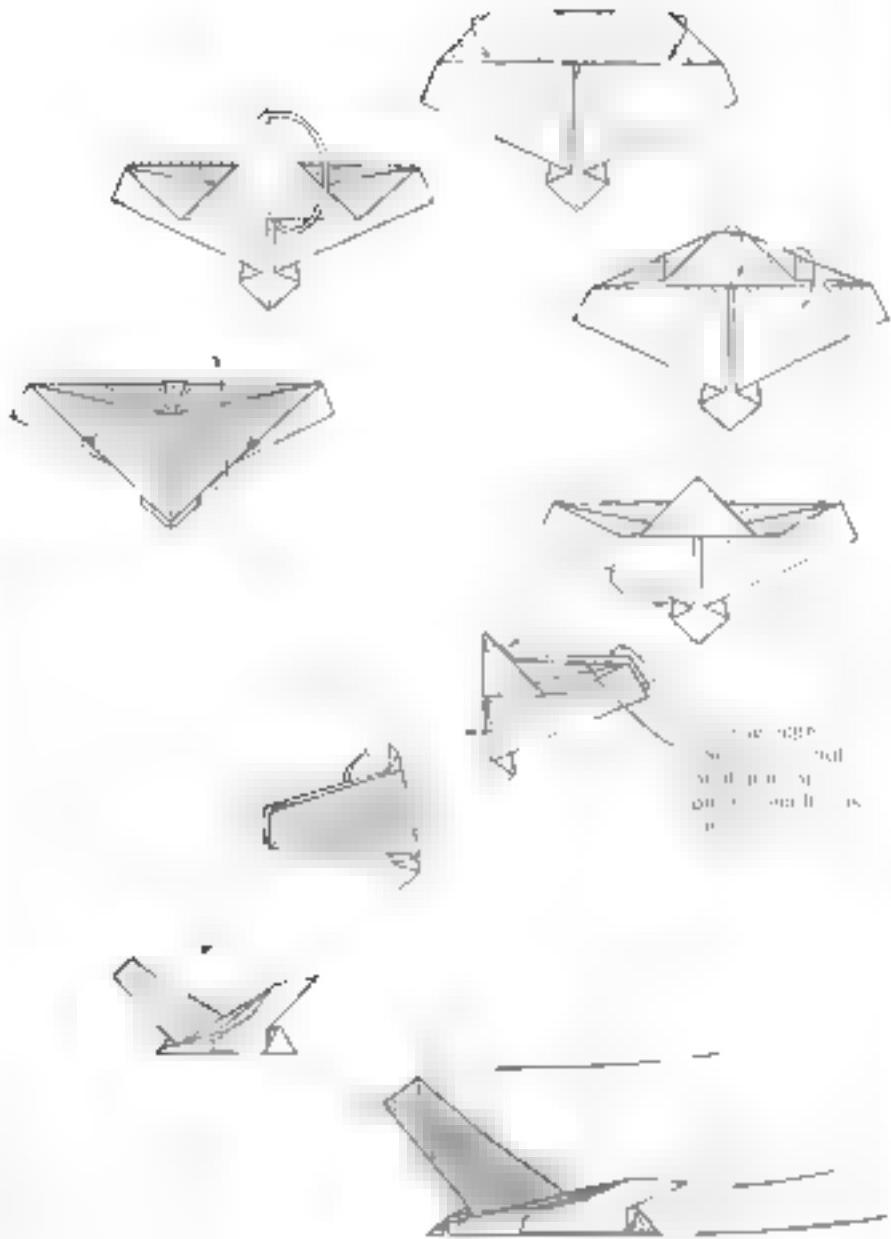


El Condor Pasa — The Condor Passes



the *U.S. Fish Commission* and the *U.S. Bureau of Fisheries* have been instrumental in the development of the fishery.





Chapter 4

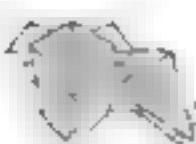
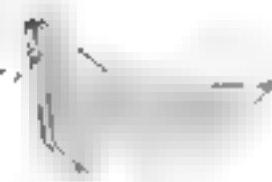
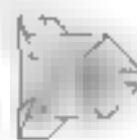
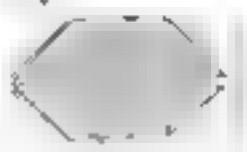
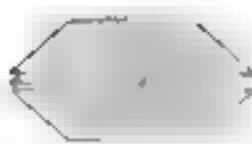
Starting the Animals



Koala

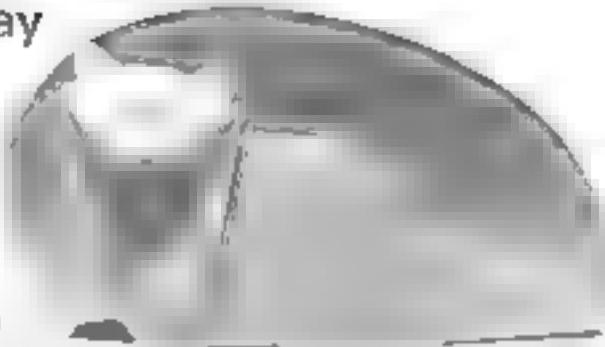
Animals are not just objects, they are also people and things. Entomology transcends all culture and nationality, but insects and relating to the animal is often overlooked. This chapter shows how to observe and identify the most common insects found in many of the animals that have been mentioned. It includes color plates, motion pictures and diagrams. The animal has to be captured or killed. My advice is to do it like the Indians do it. It is considerate, honest, respectful and kind. It is a way of observing.





The Smart Way to Read the Chart: Stay One Step Ahead

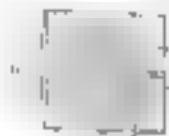
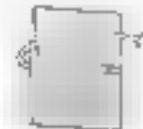
Bearers who have succeeded through the first six steps may not see this hint. So should like remind you of the importance of always looking

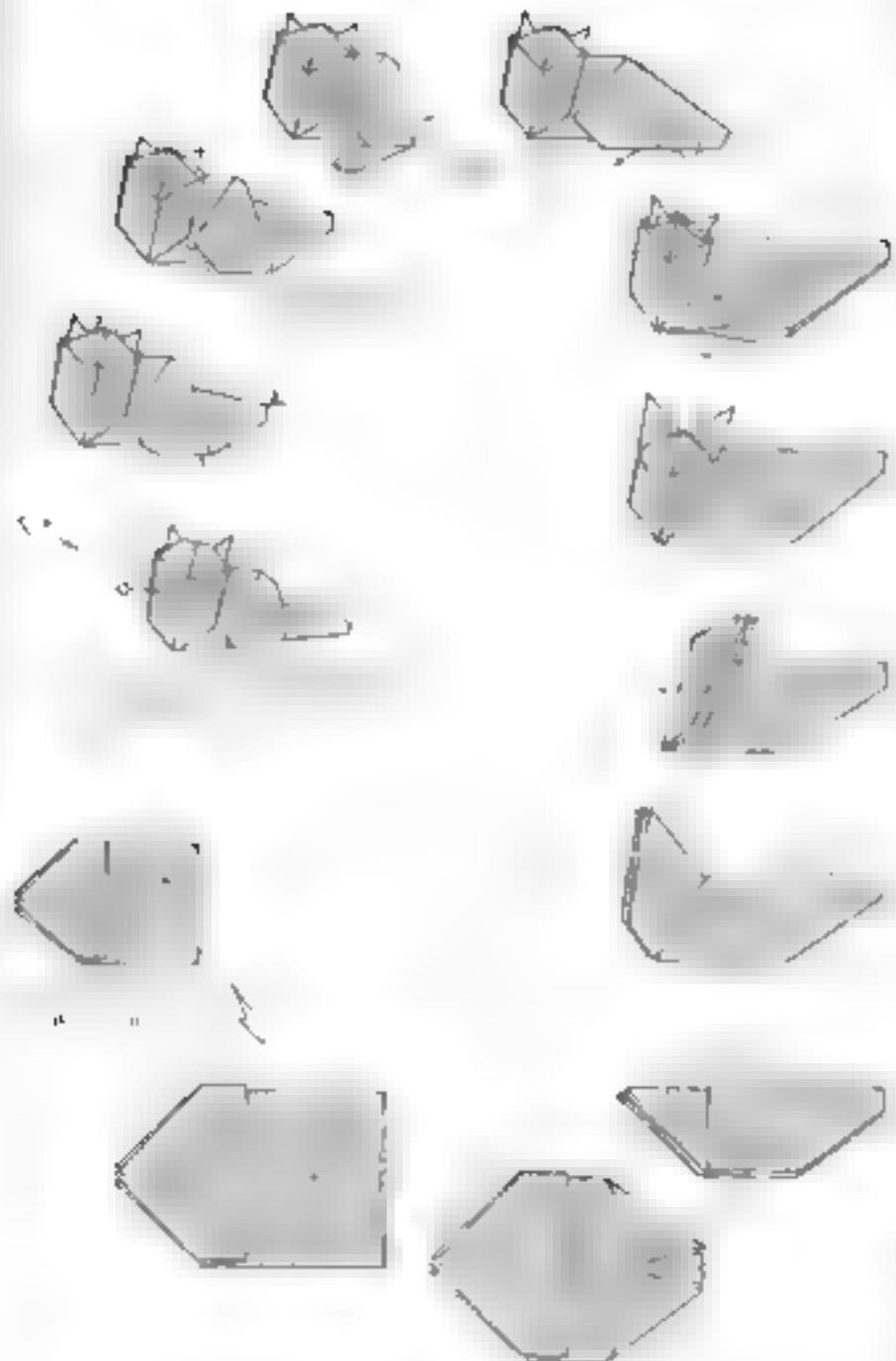


Persian Cat



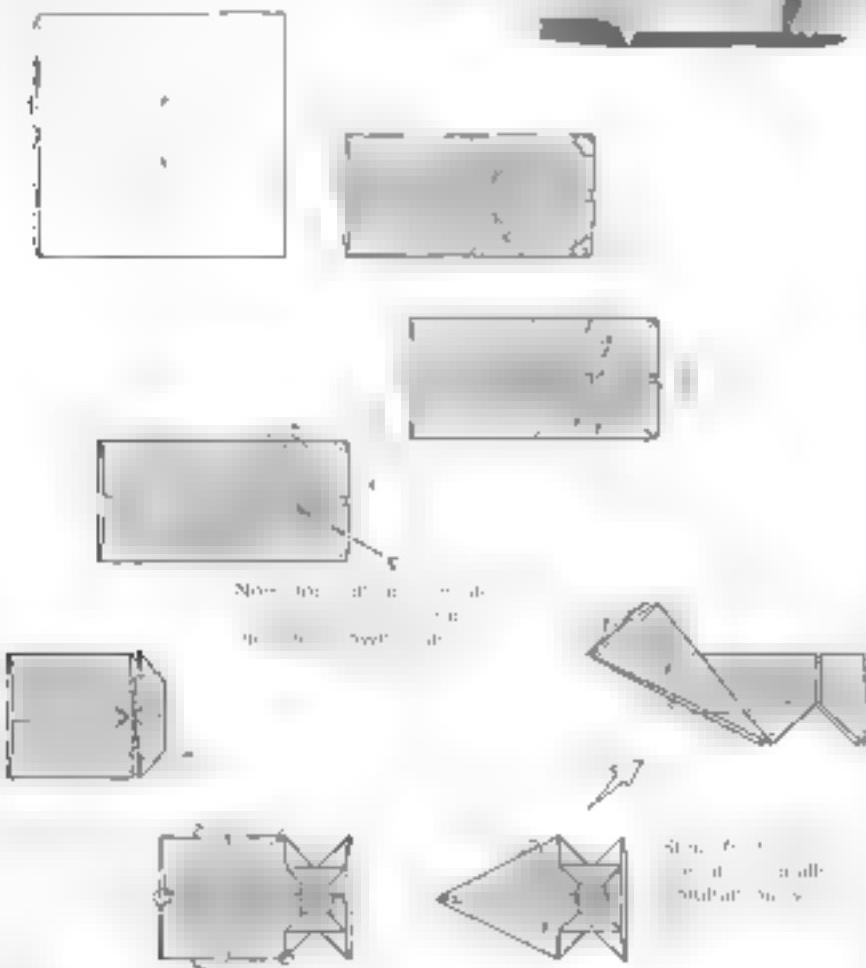
a step farther than the one you are performing at the top of course. Because they will stand this, it often generally have the time even with air tight. If you make a good base adviser is good. Met in these look at reading the diagrams.





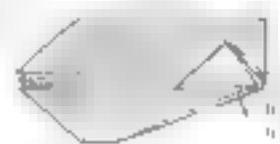
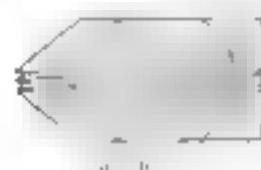
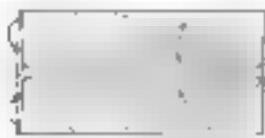
Llama

The llama is an animal of the Andean mountain range in the Andes Mountains of South America. Since the fluffy layers make the camel look like a snowball, it's good to keep it warm.





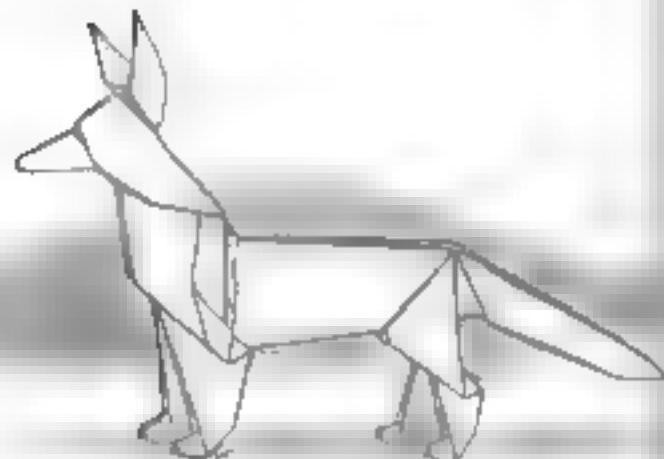
Fox

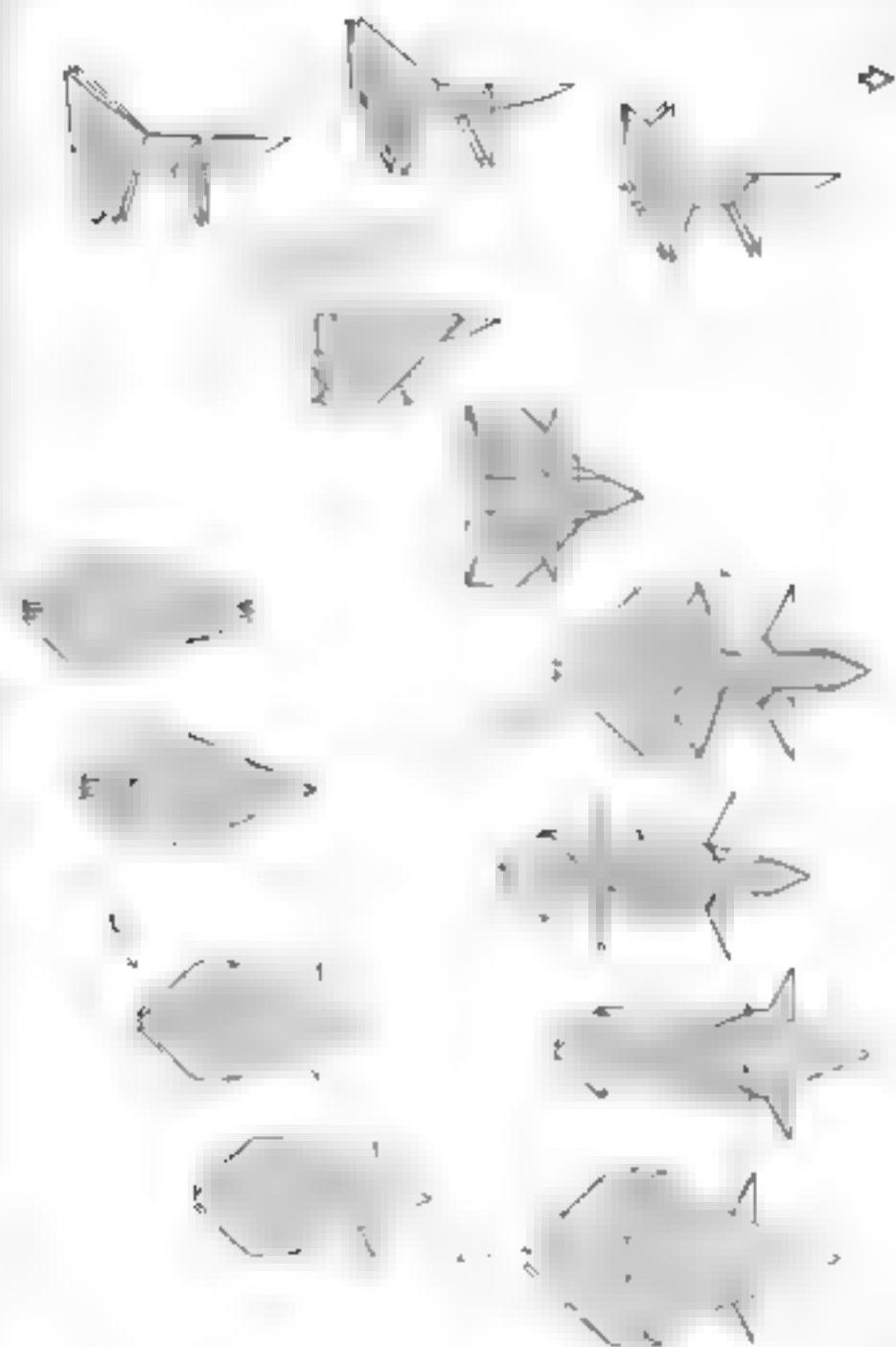


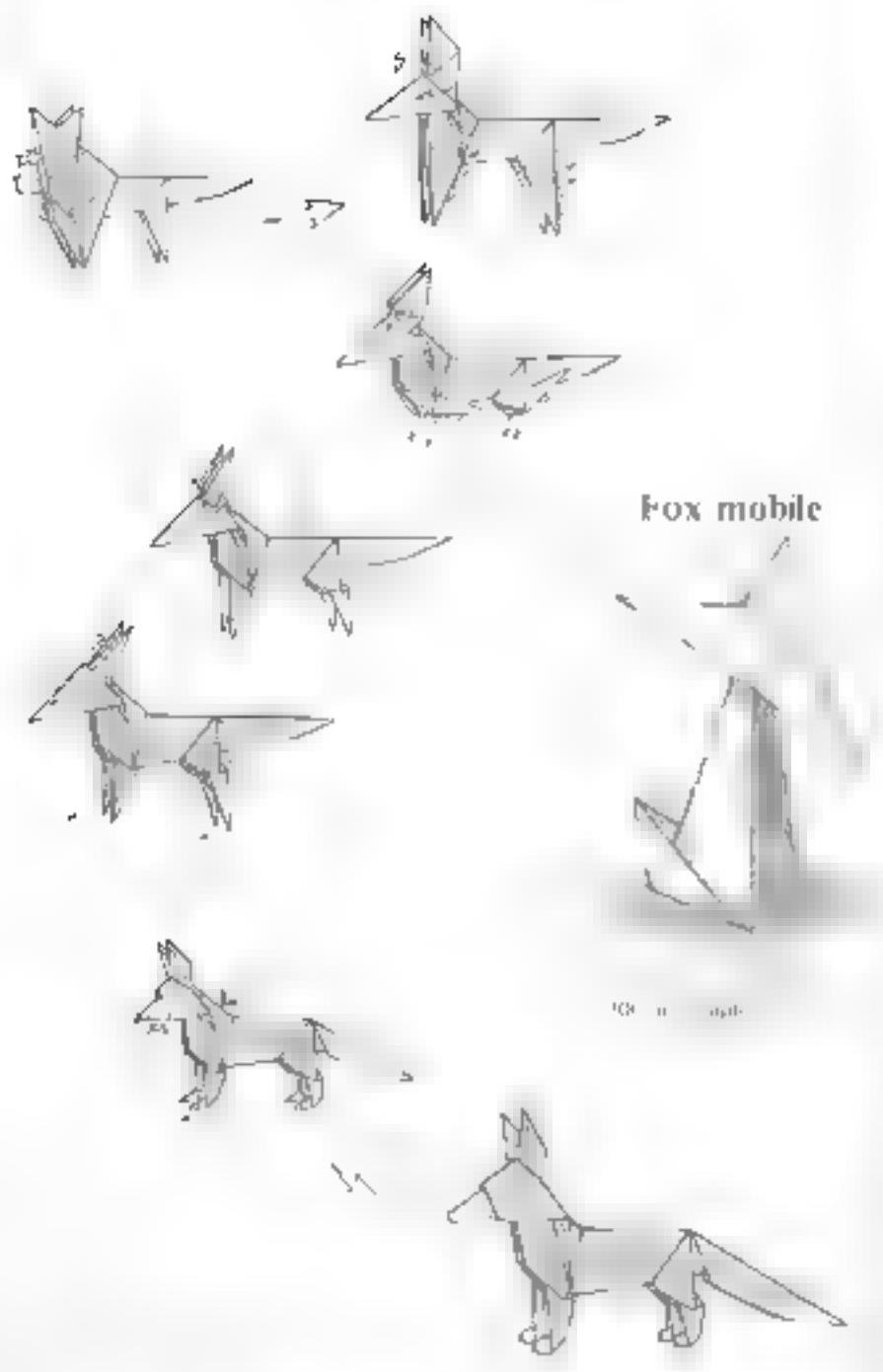
die Fächer

zu einer

Fläche







Onge

Fox on the chase



Origami ideals

• a - p
• e - z - w - u
• c - d - d
• d
• p - n - n - n
• p - f - h - h
• n - f
• -
• n - t
• p - p - p
• -
• p - n
• p - n - n
• n - s - m
• m - c - n - n
• p - p - p
• n - n
• p - p



Symbolization of the fox

Beagle

Procedure for the dog:

After the dog is apprised of the

Stimulus, the experimenter will

administer the drug or placebo

and then place the dog in the

Experimenter's chair.

The experimenter will then

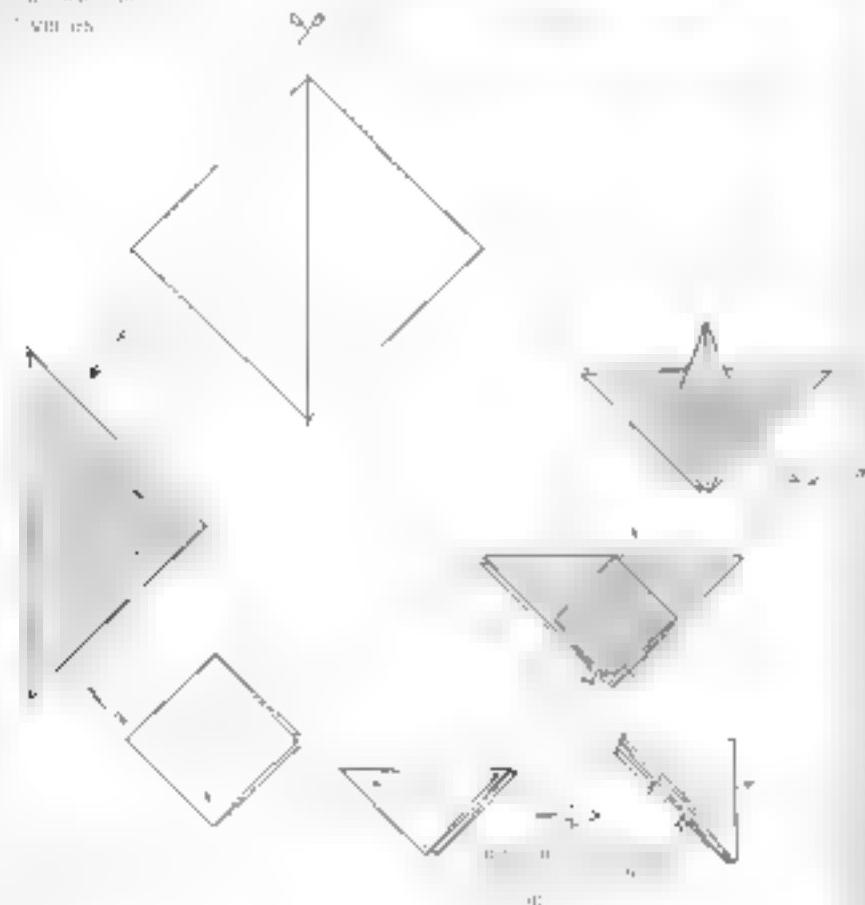
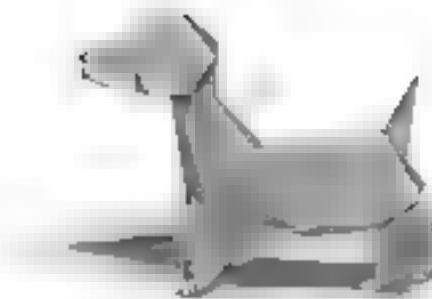
hold the dog's head firmly

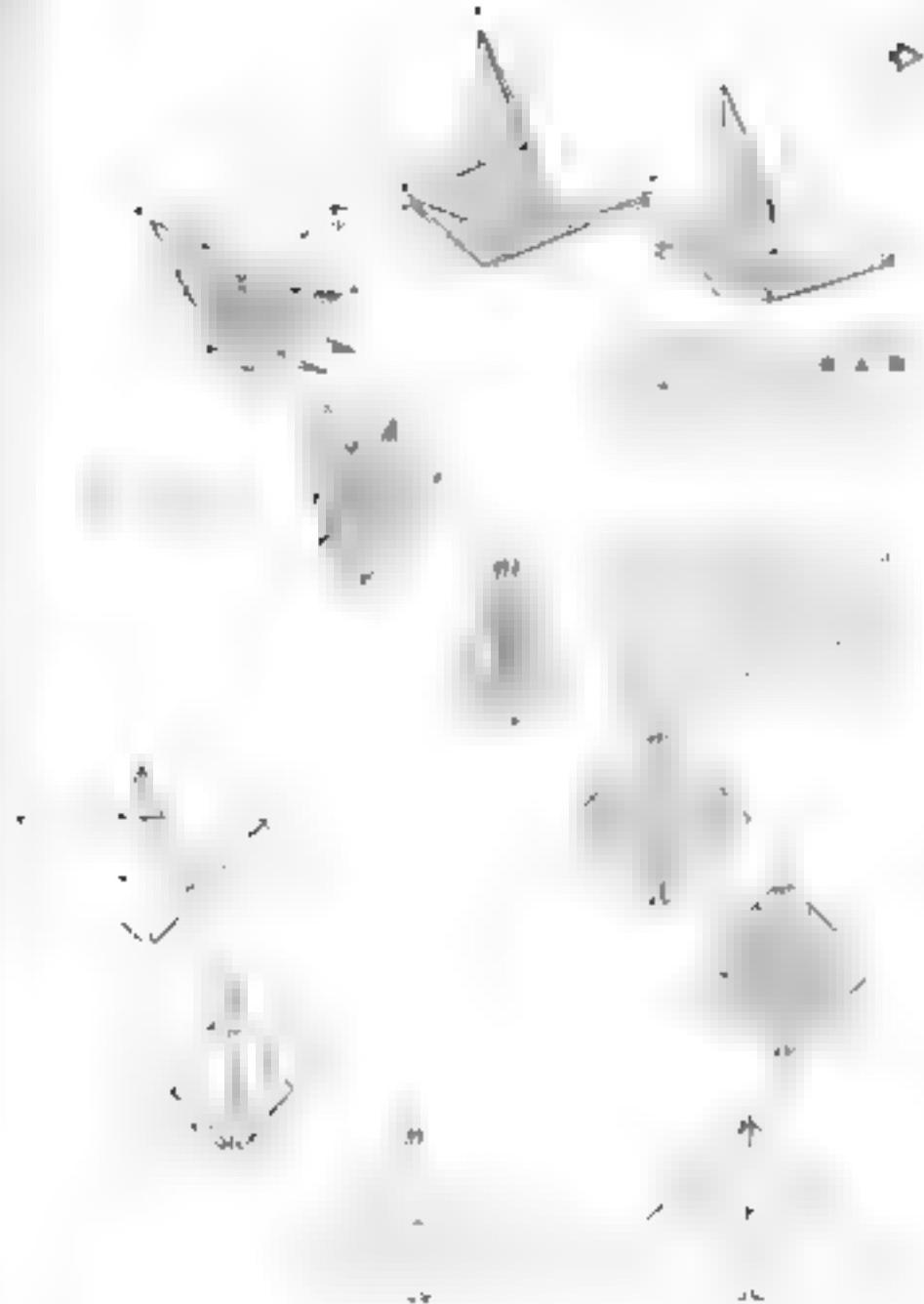
in his hands and make the

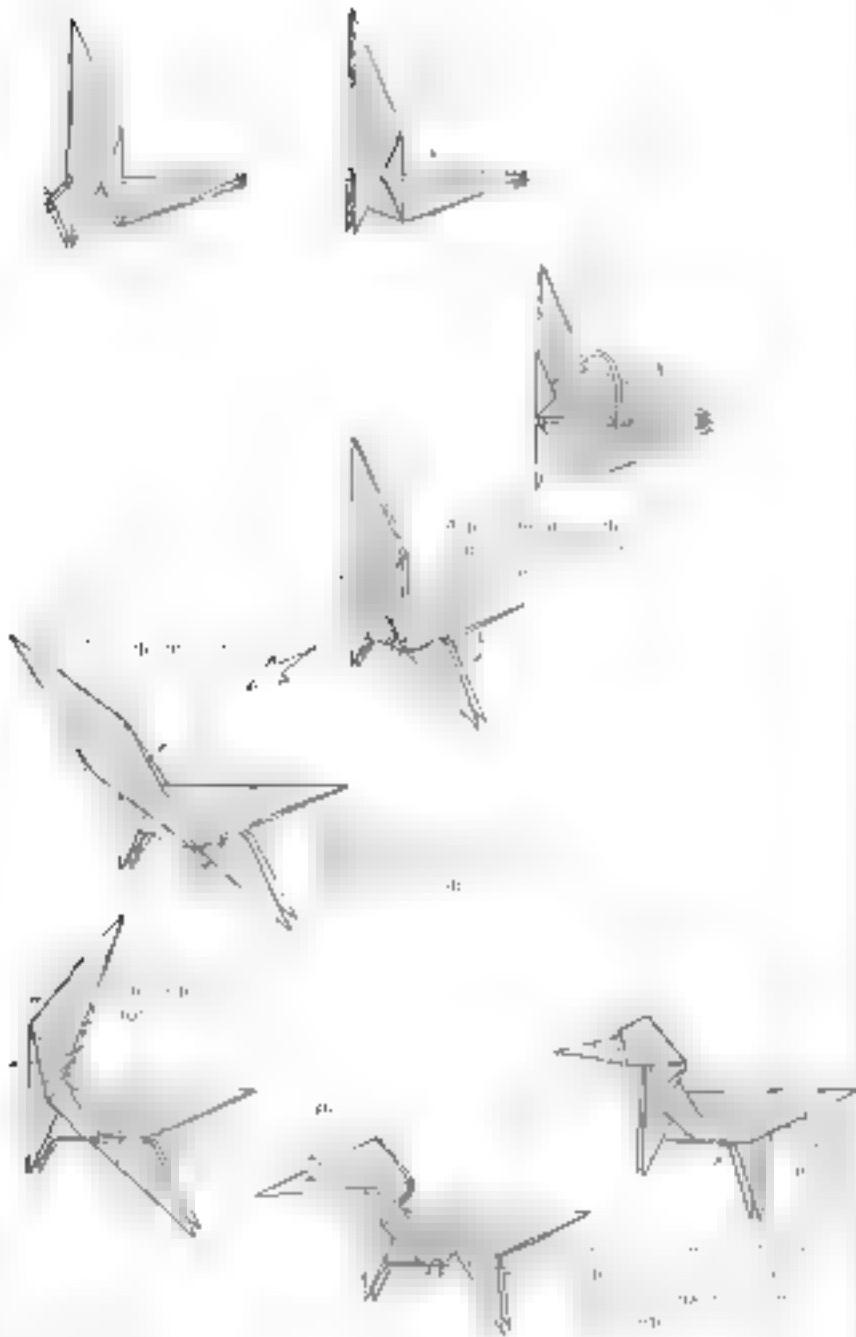
stimulus available to the

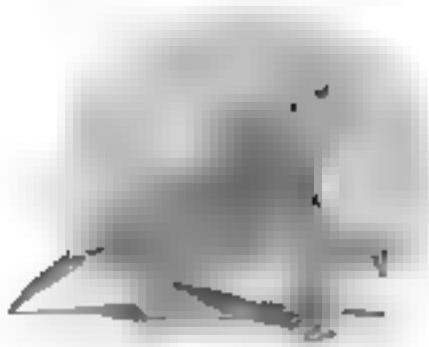
dog's nose and mouth.

If the dog sniffs the





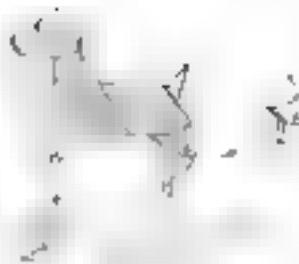
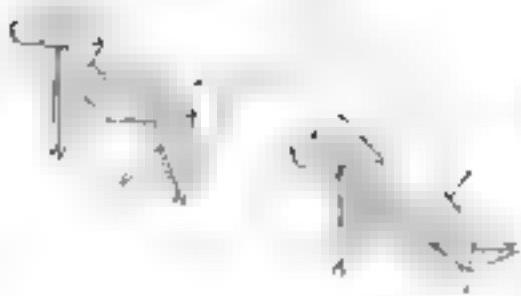
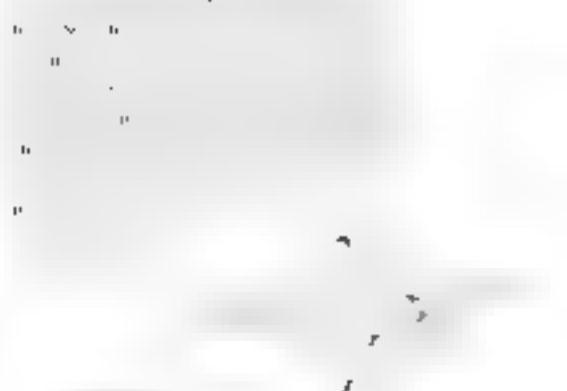




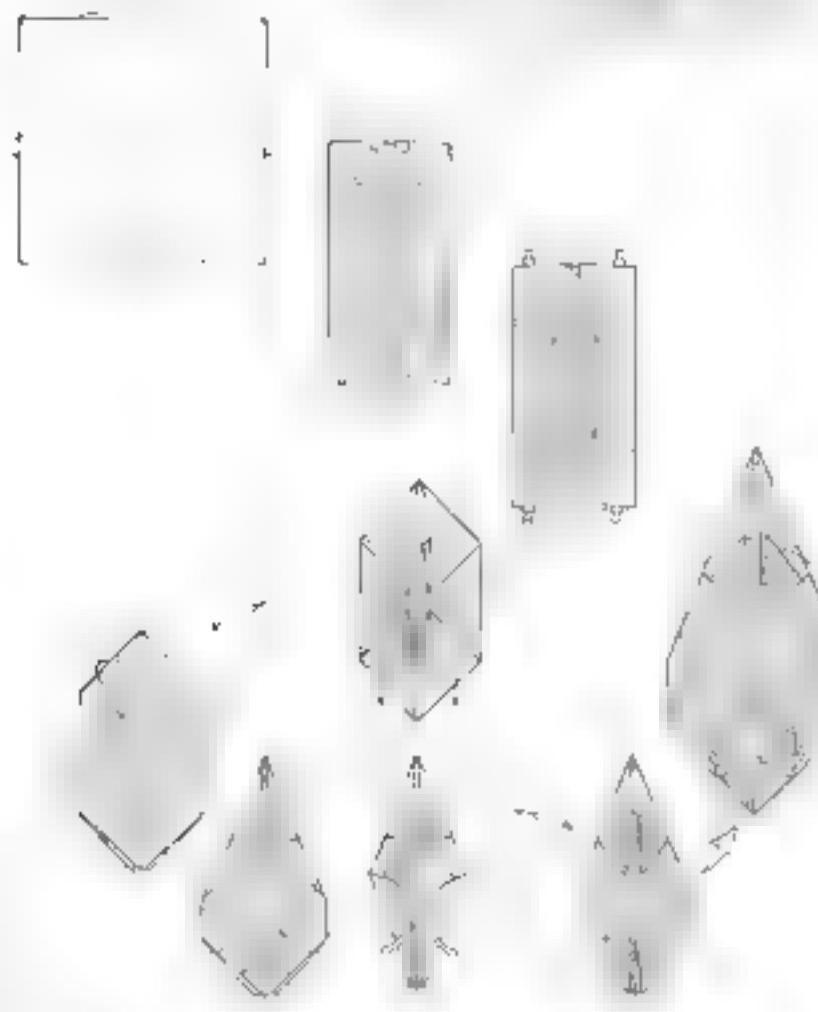
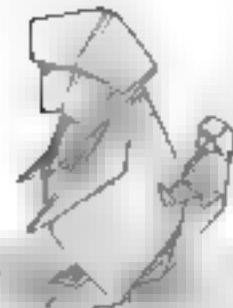
Japanese monkey

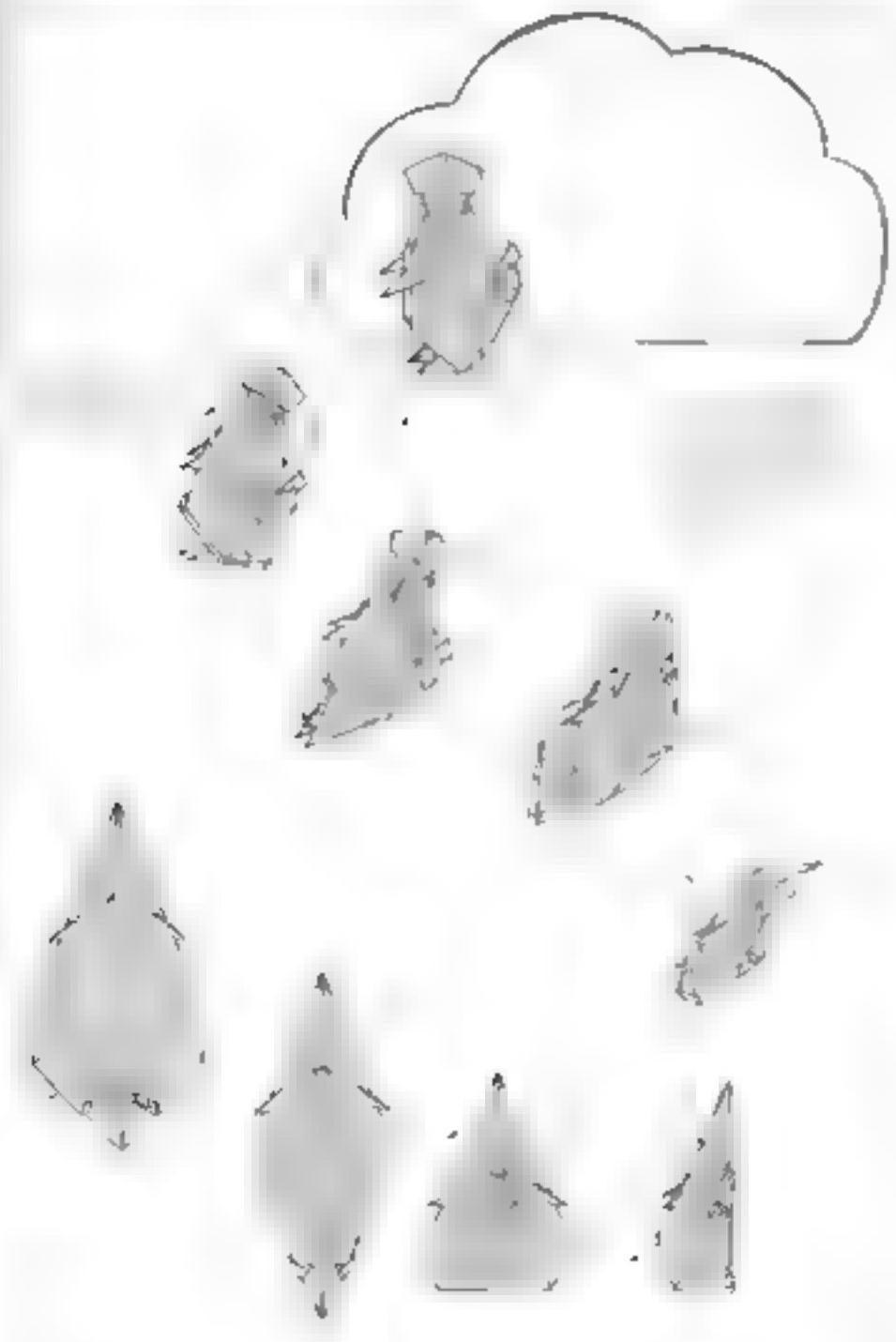


Giraffe

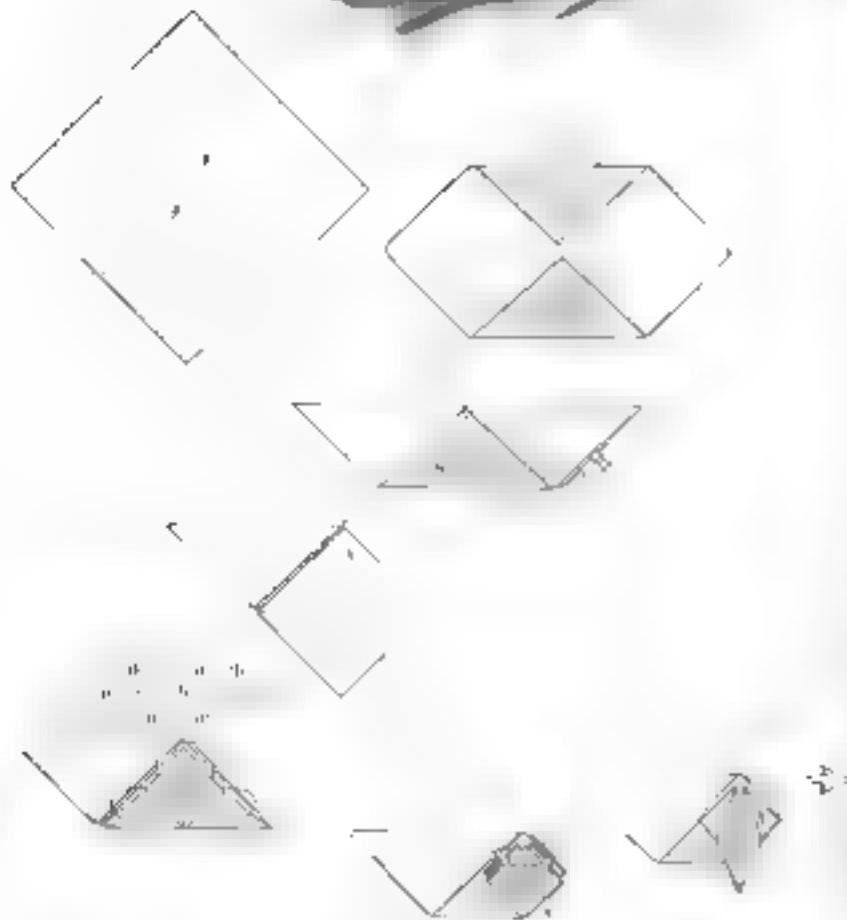


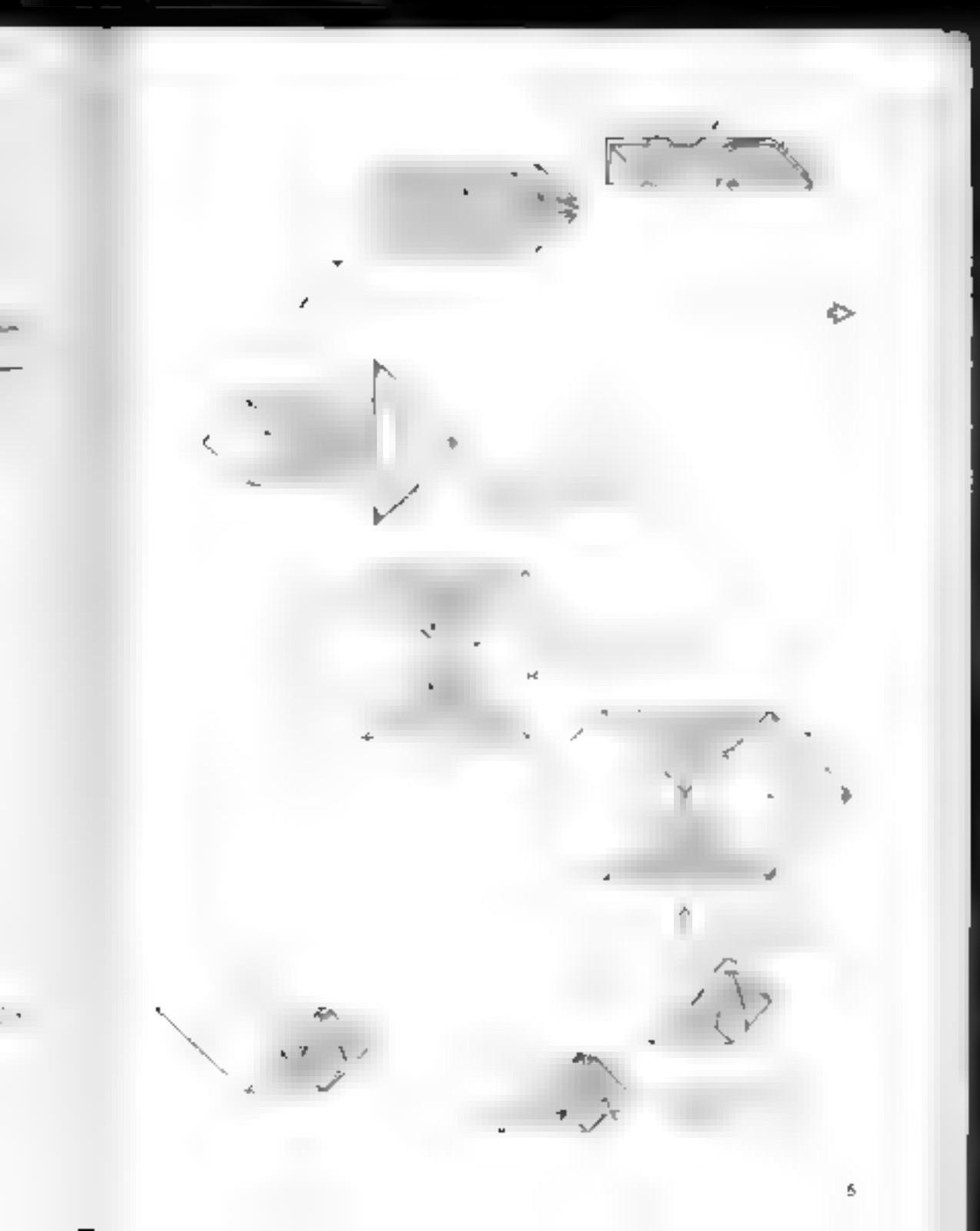
Mother-and-child Monkeys

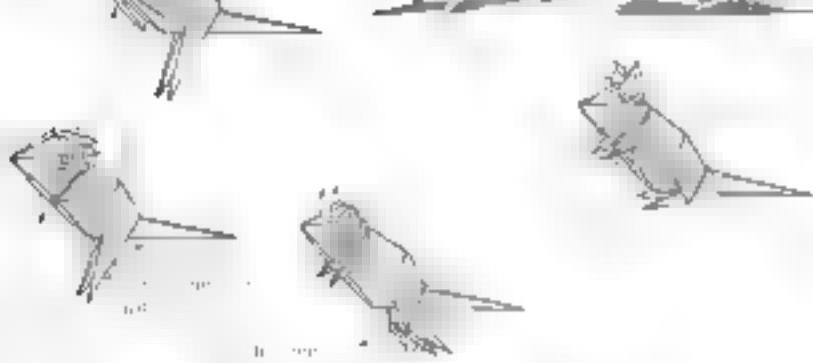
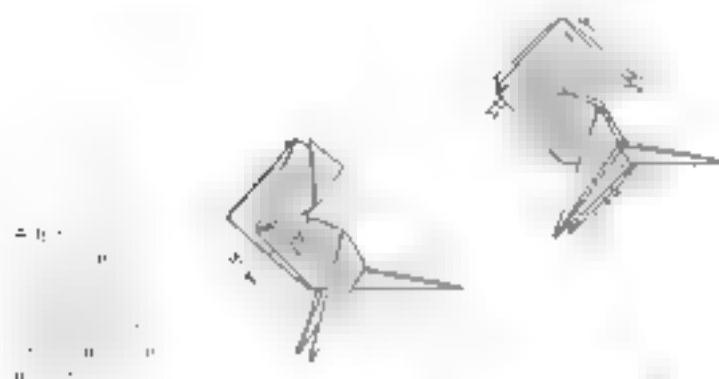
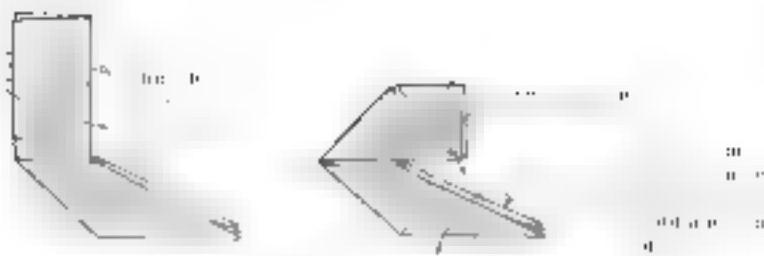


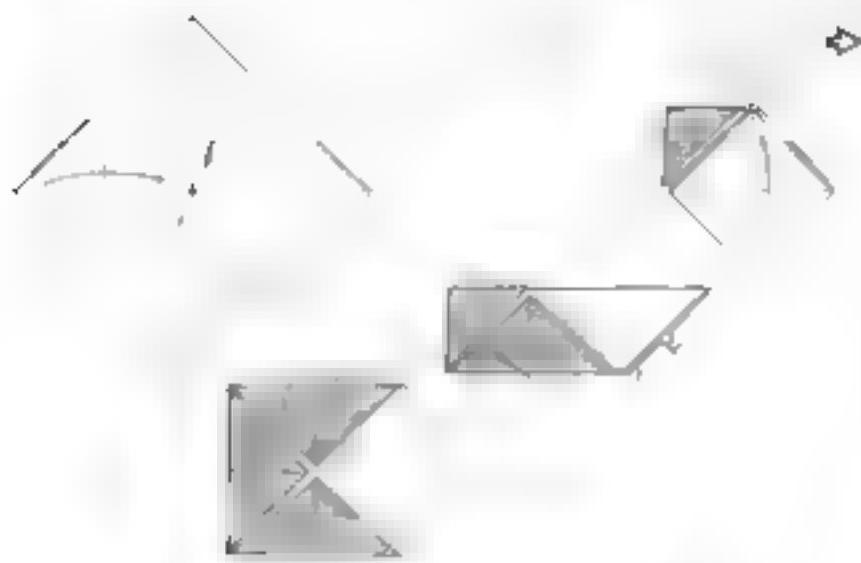


Mouse

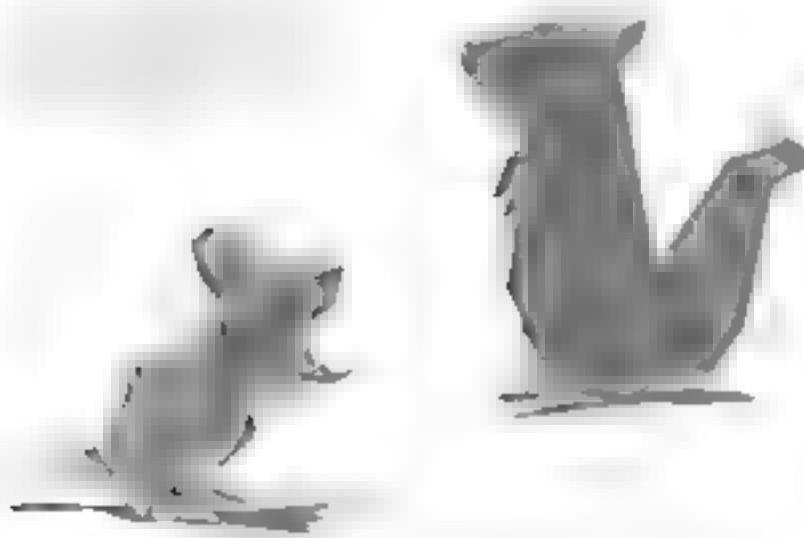


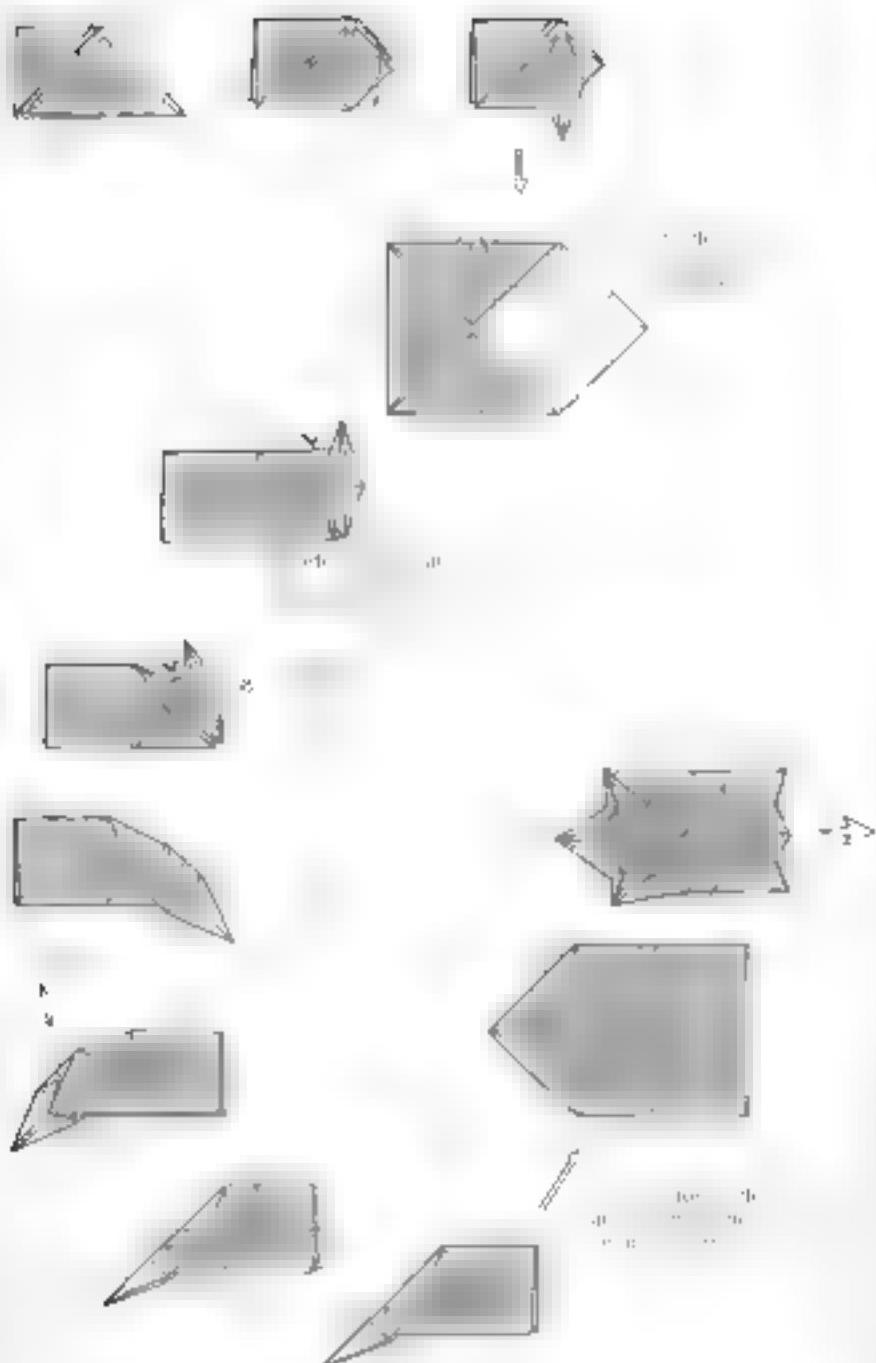


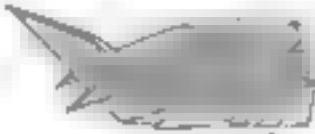
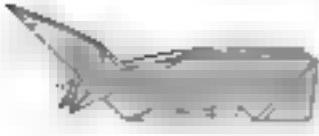
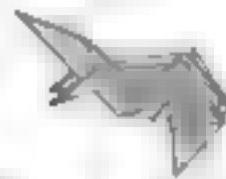
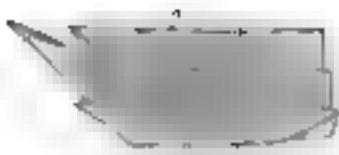
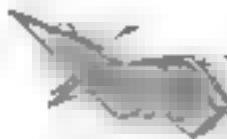
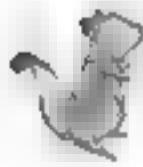




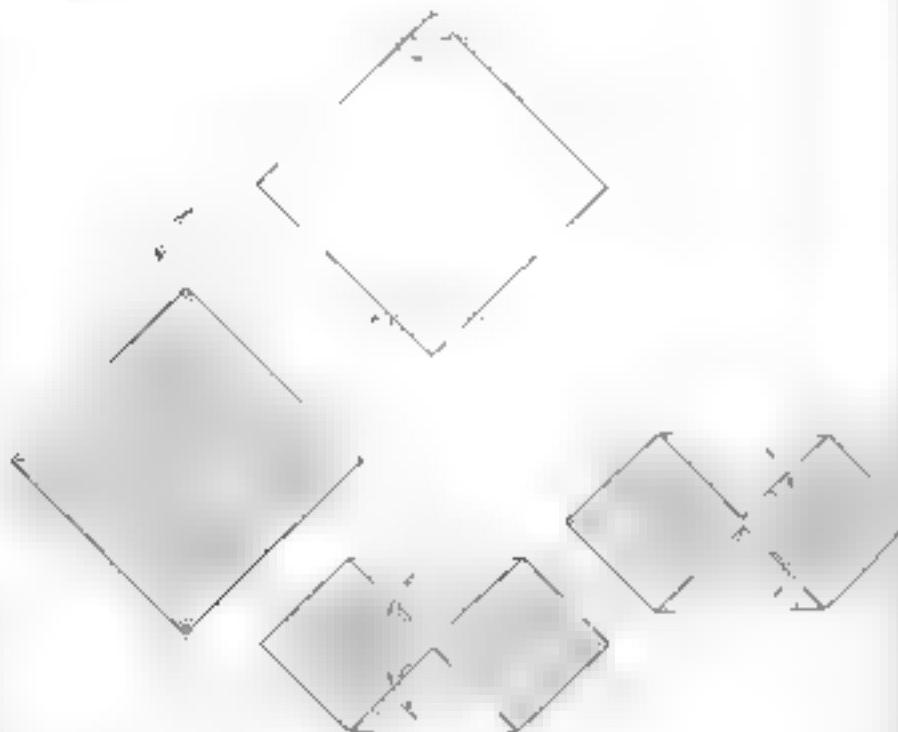
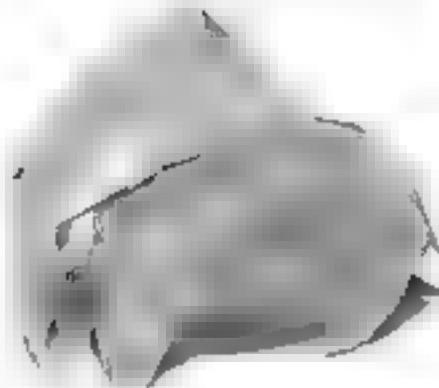
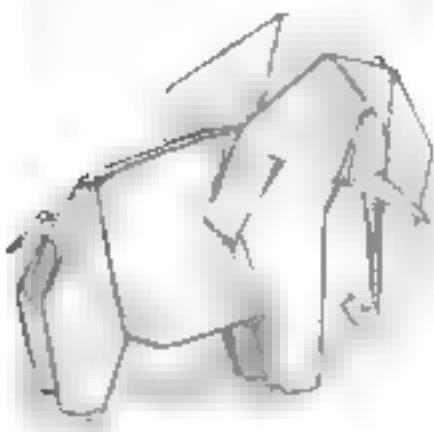
squirrel



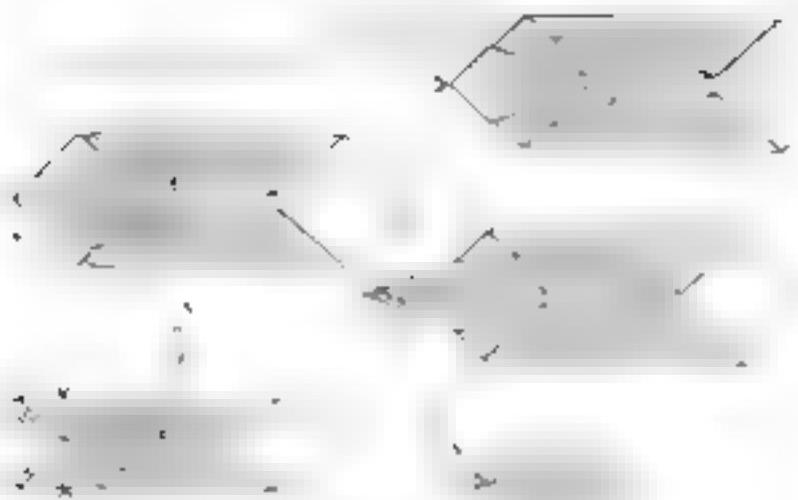


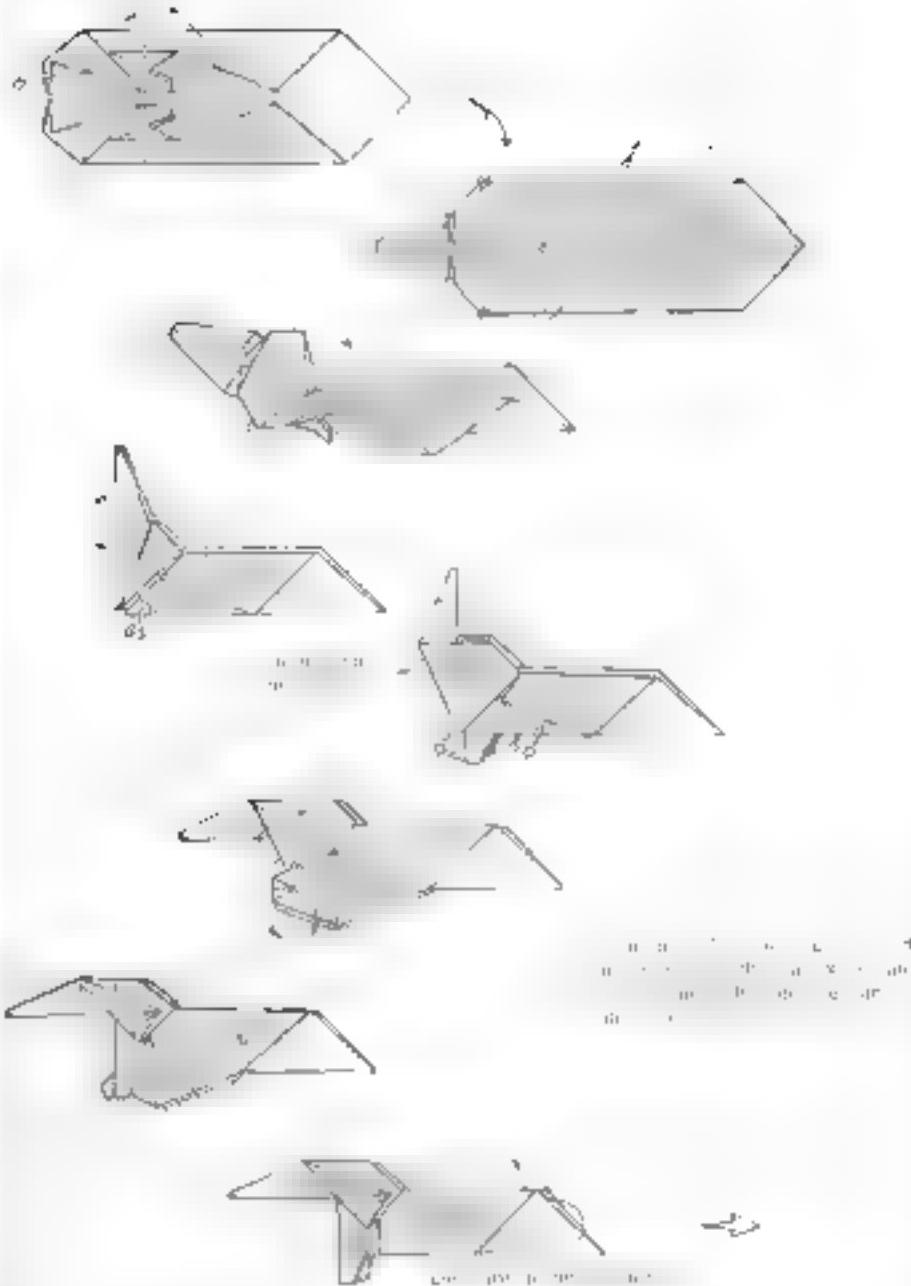


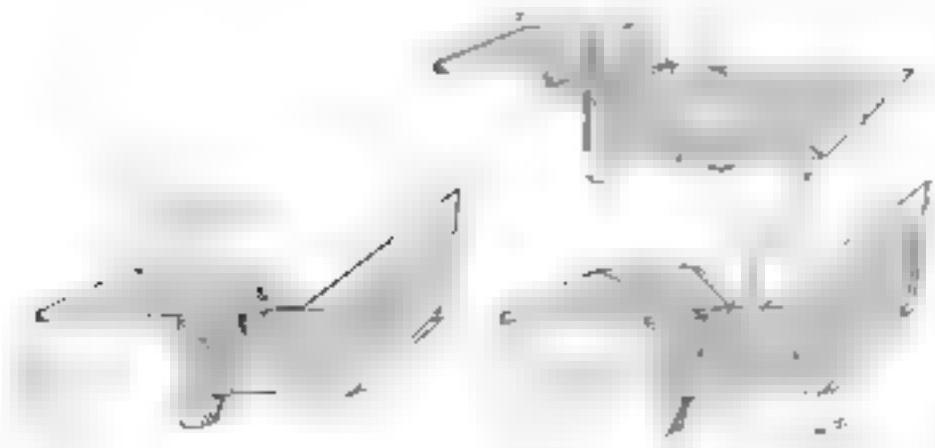
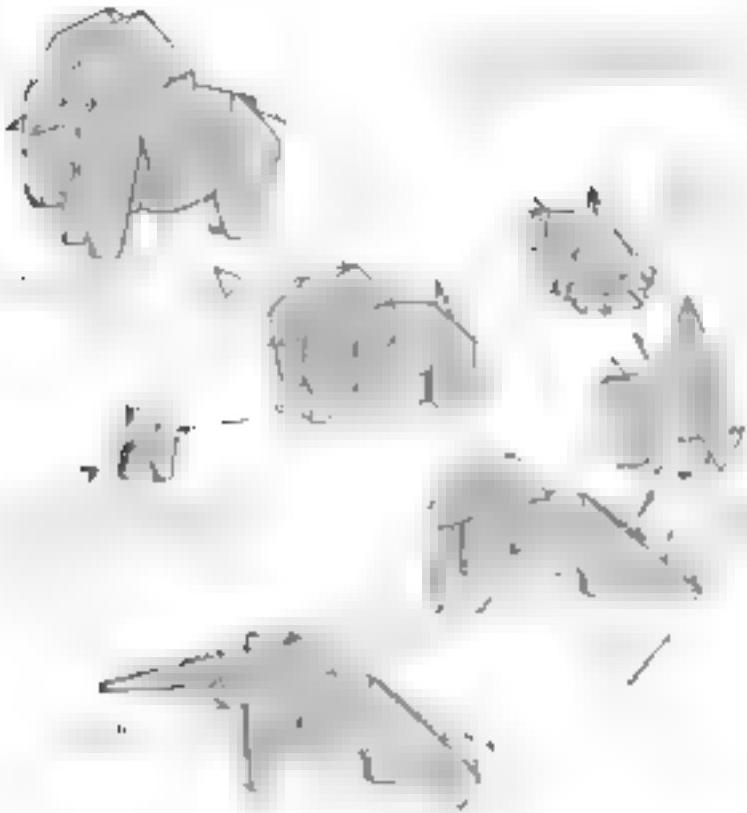
Elephant



4

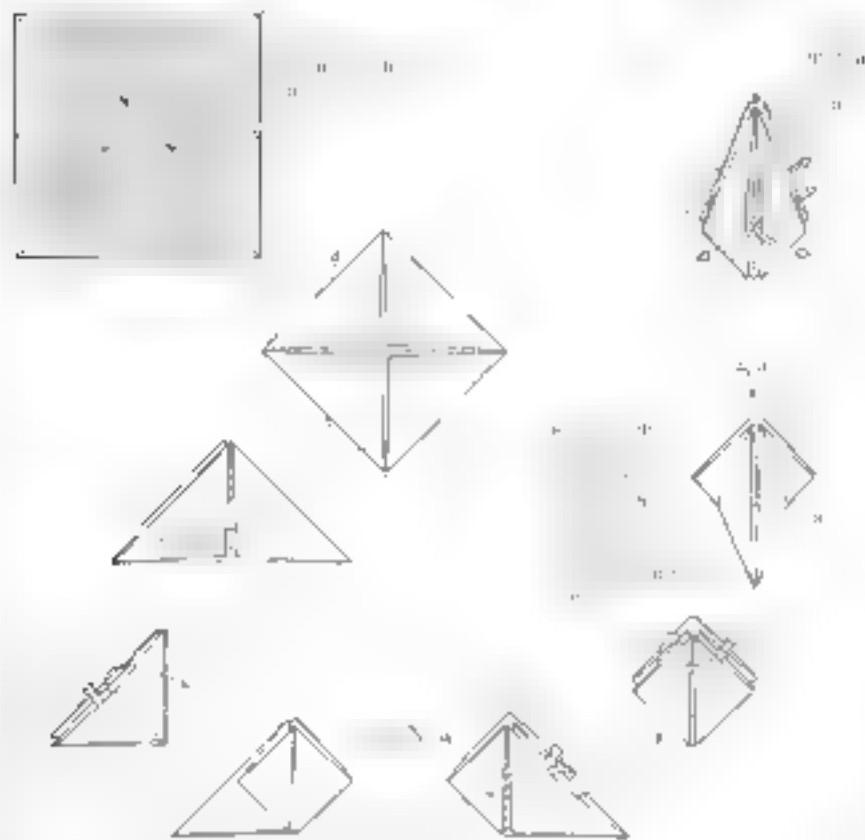
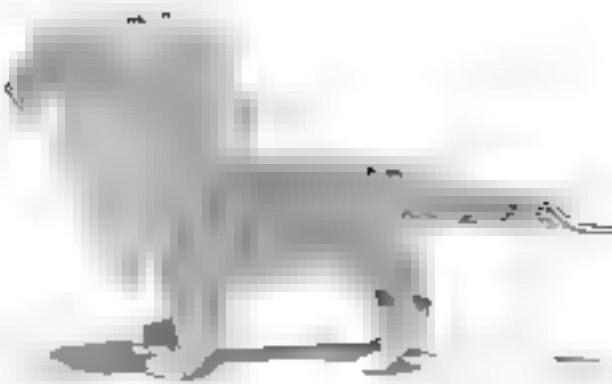


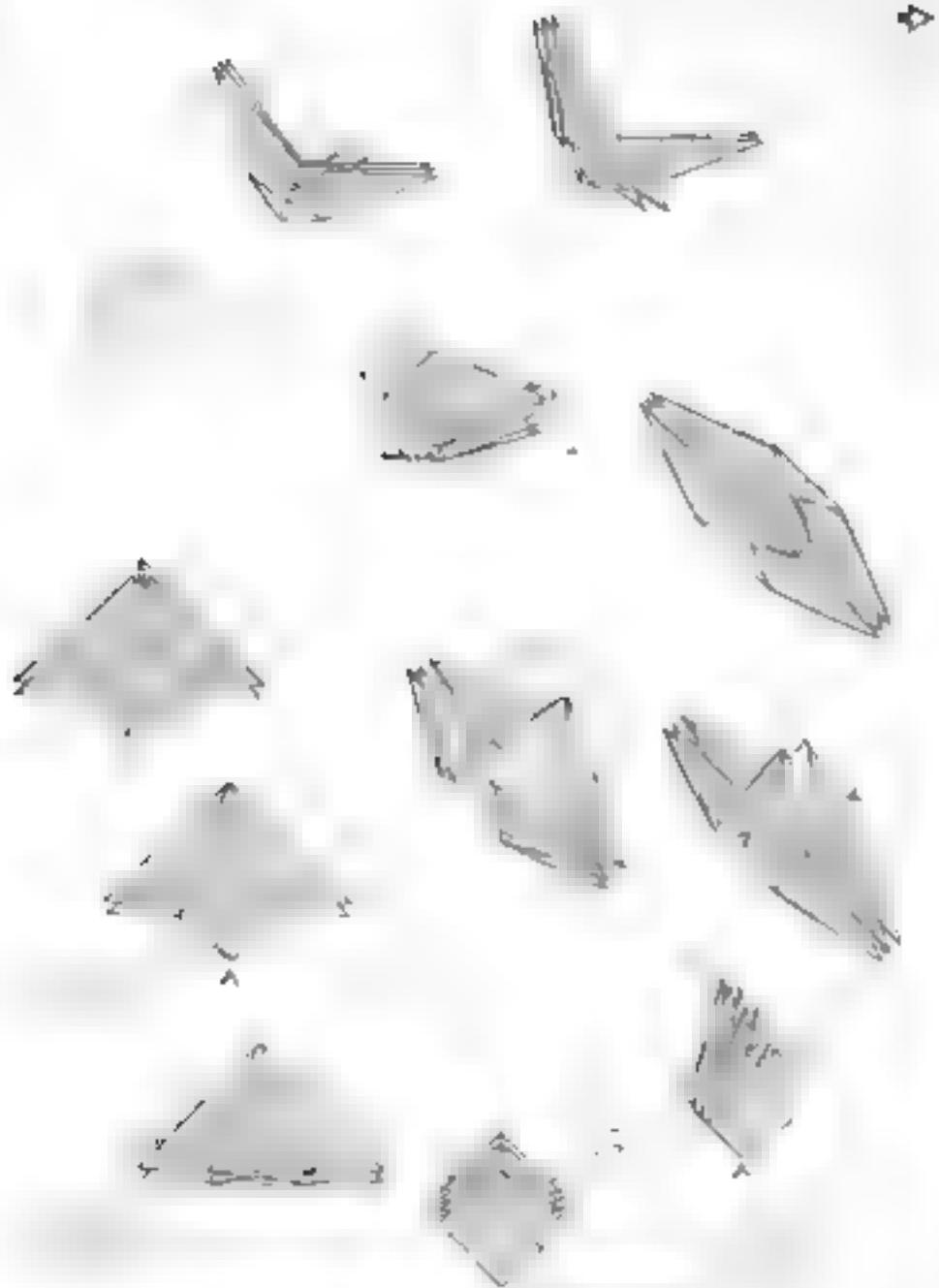


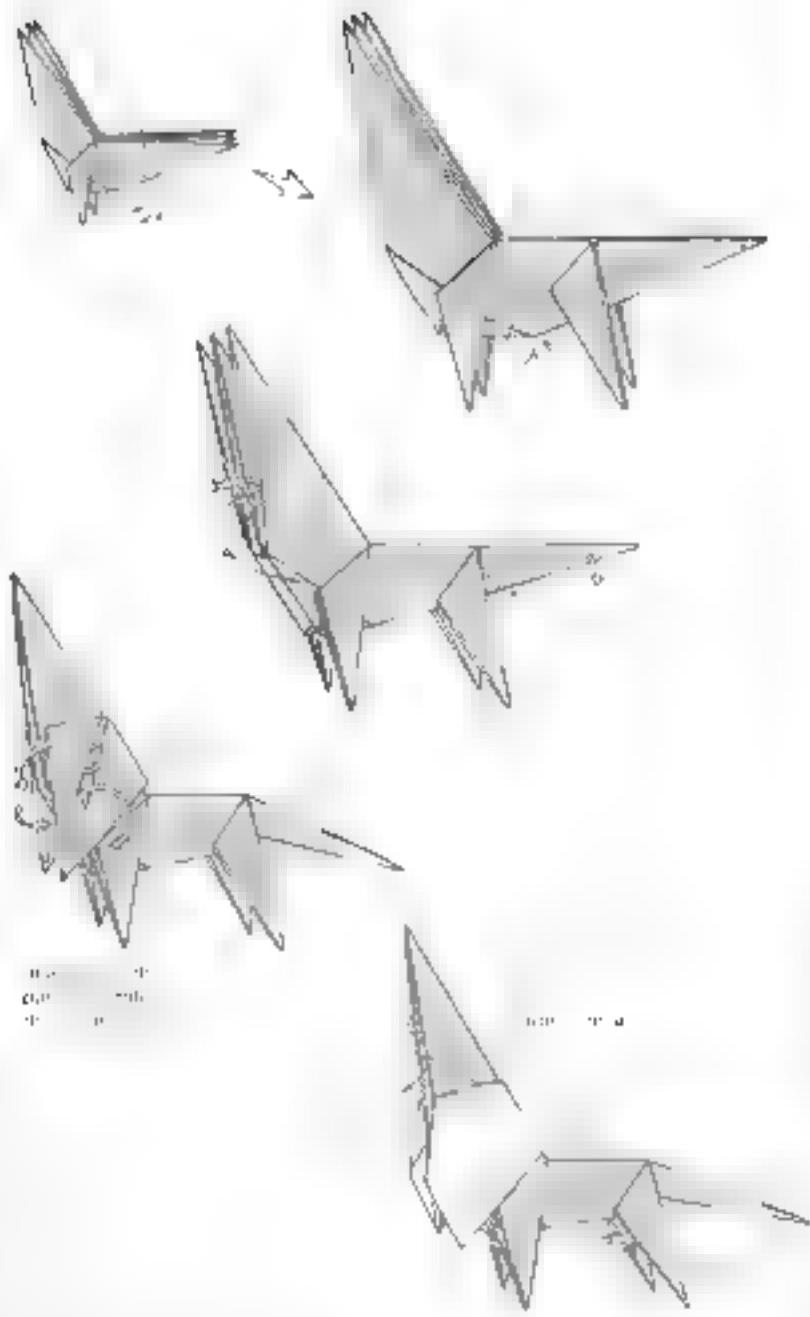


Lion

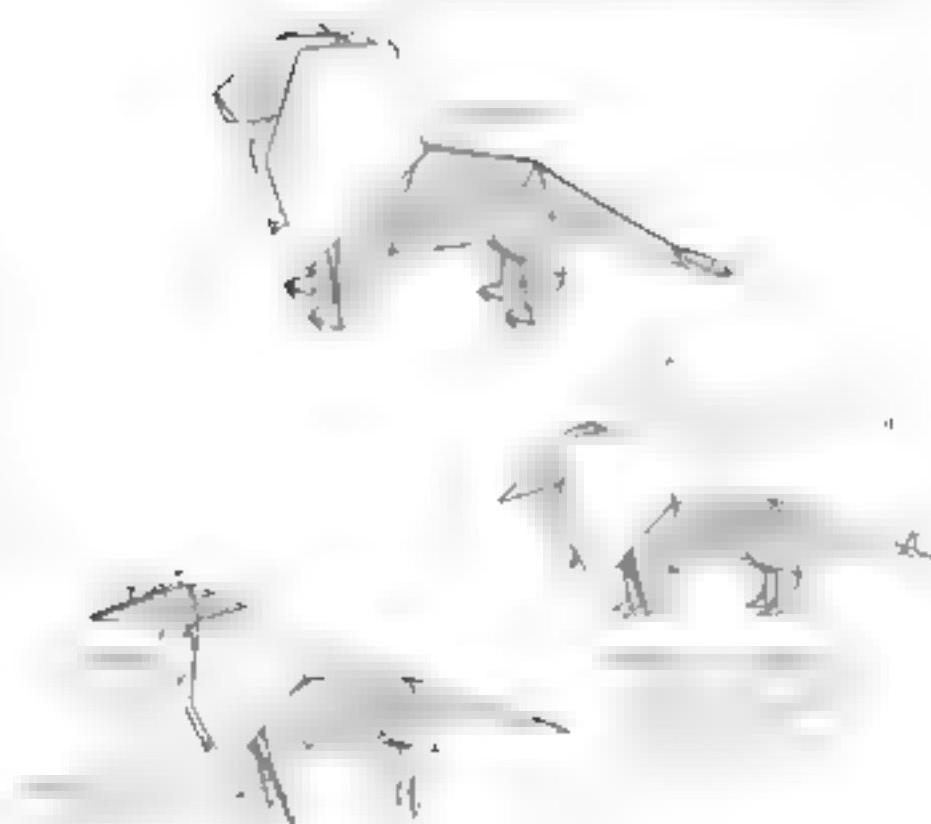
Sh = 10 cm - 0.393 in
a = 20 cm - 7.87 in
W = 1200 - 47.2 in
m₁, m₂ = 50 g - 1.76 oz
n = 10 - 10 copies



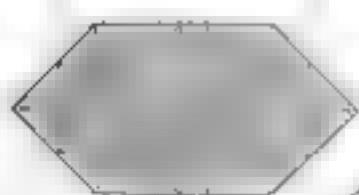
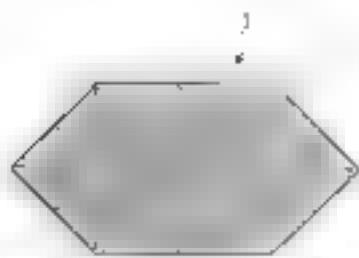
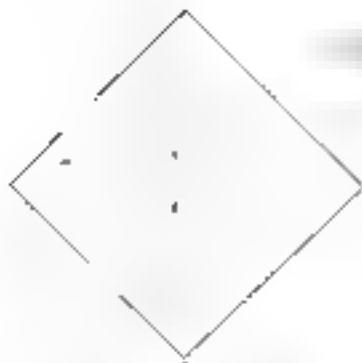




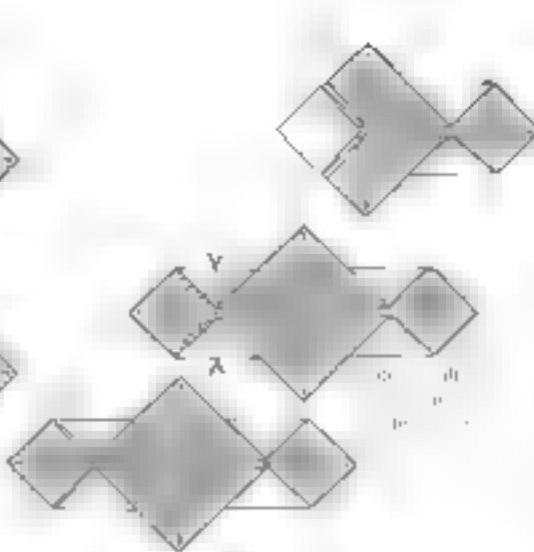
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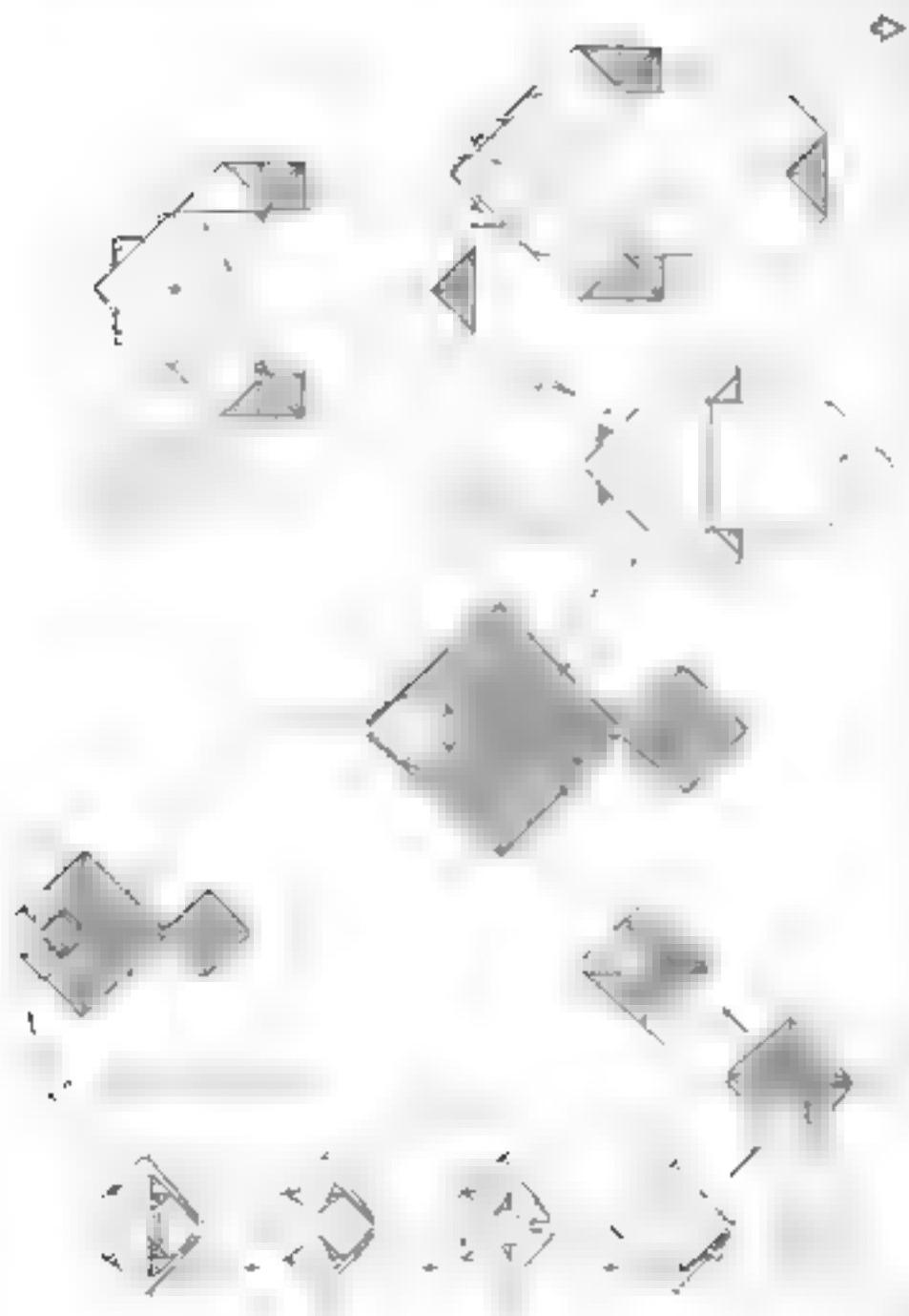


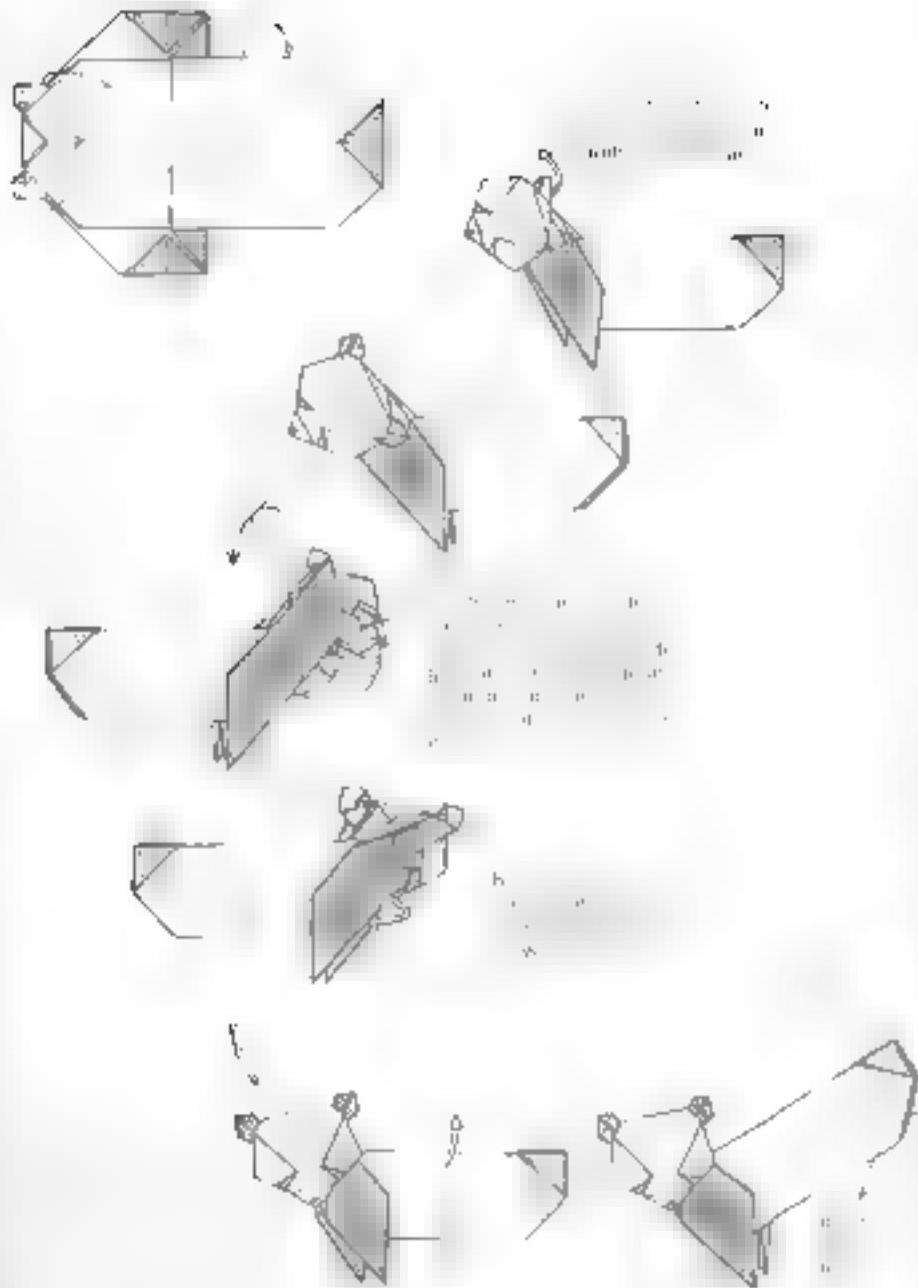
Giant Panda

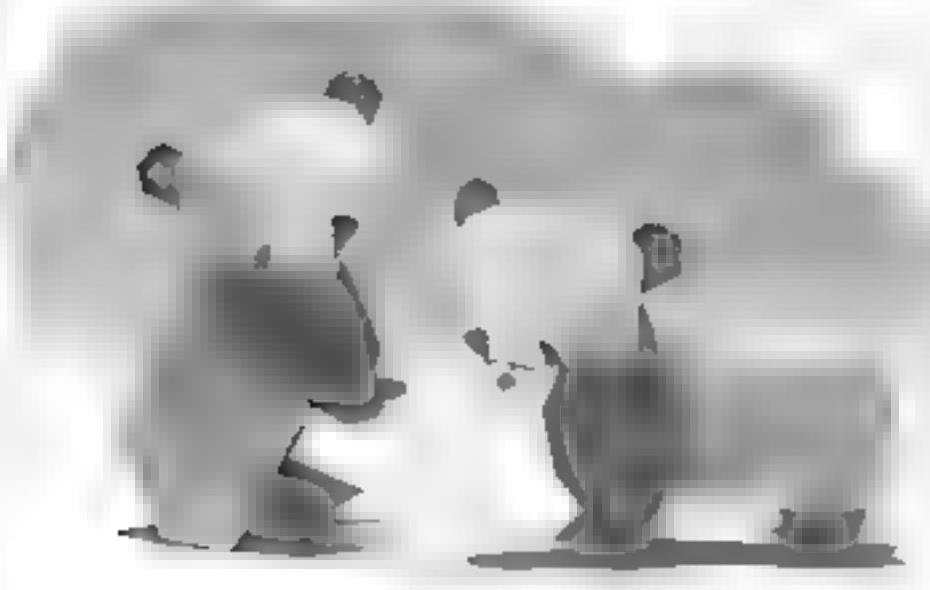


A B C
D E F



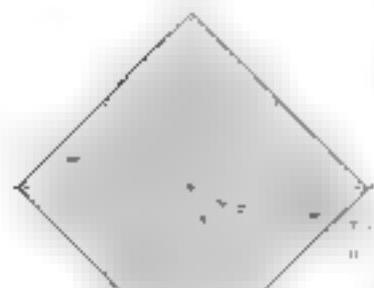




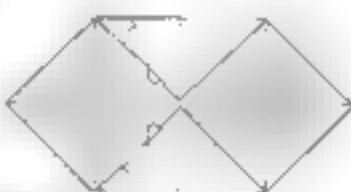


Donkey

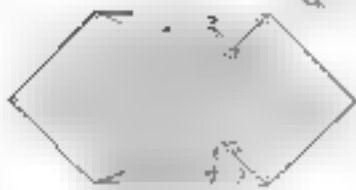
Stap a broad sheet of
thin paper onto the
writing shelf and draw
the outline of the donkey.



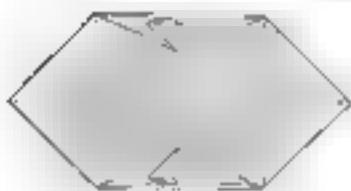
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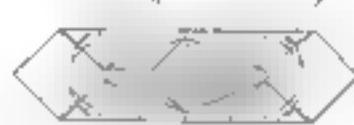
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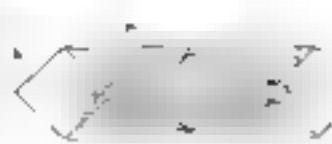
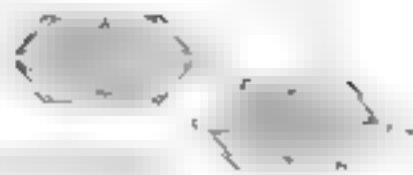
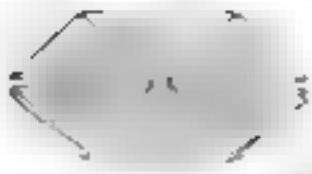
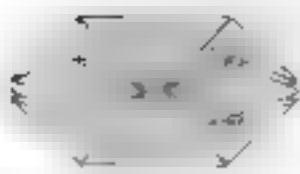
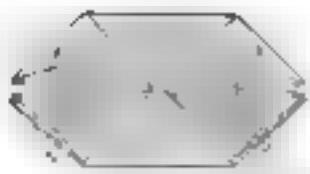


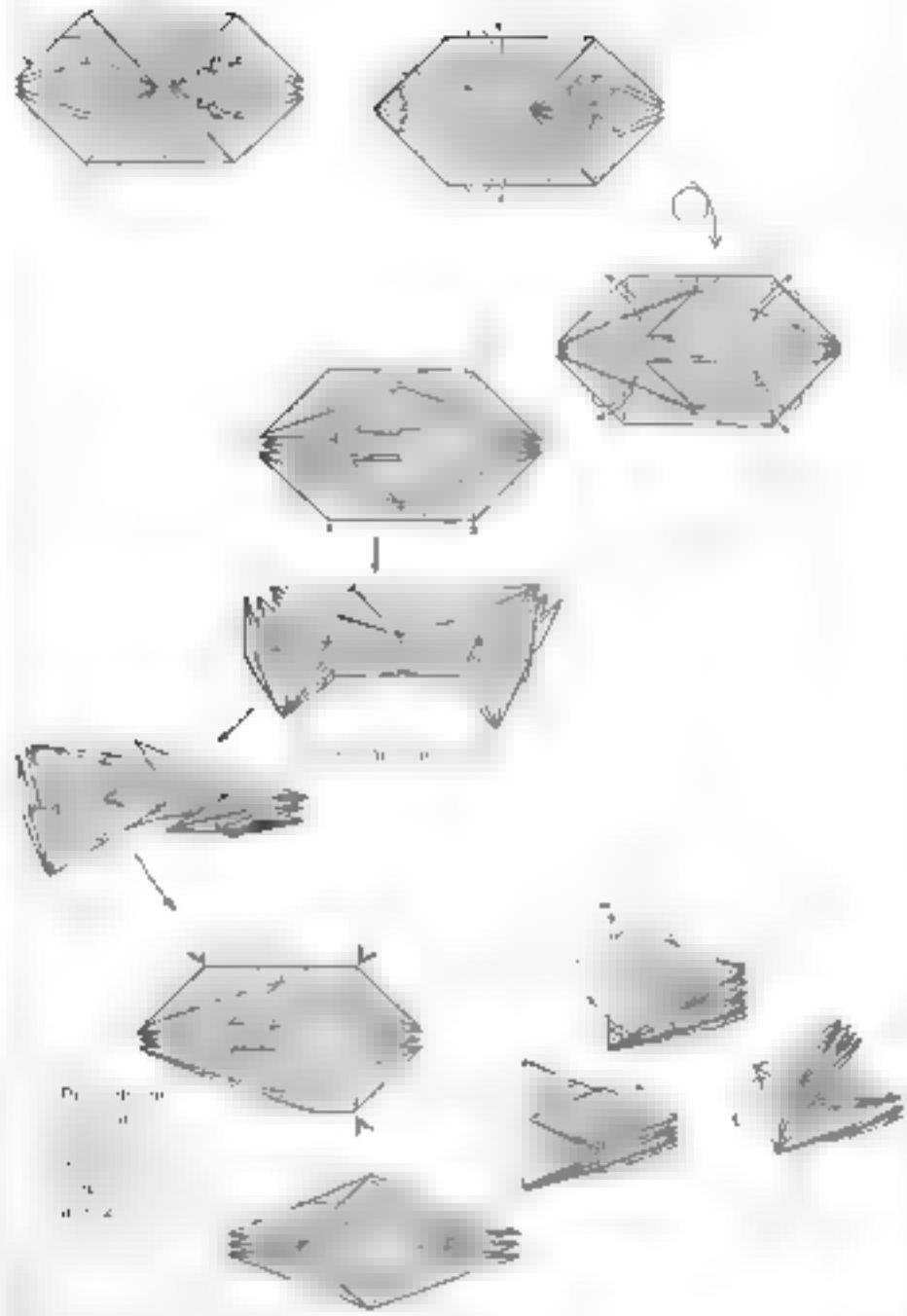
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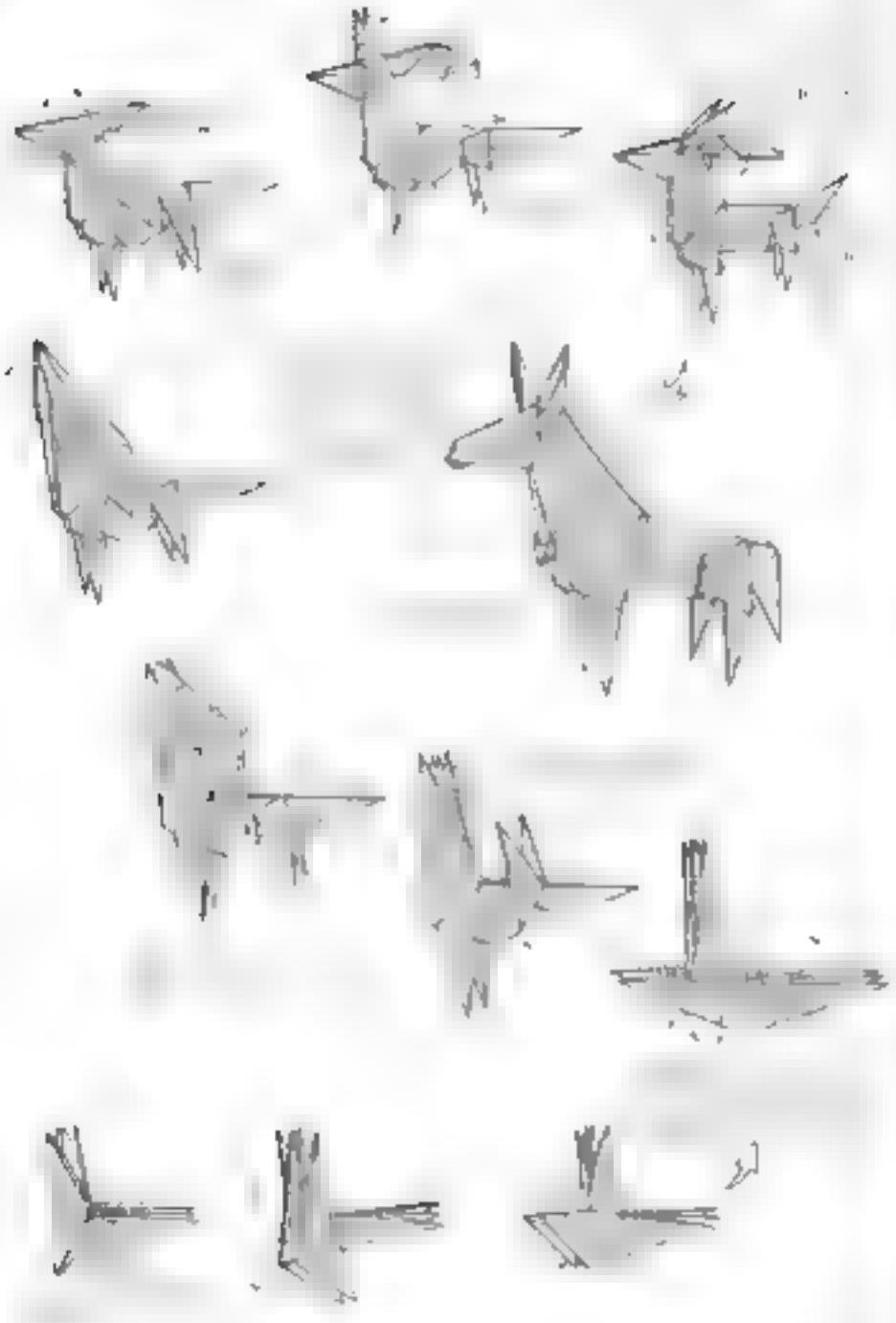


4





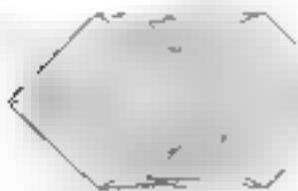
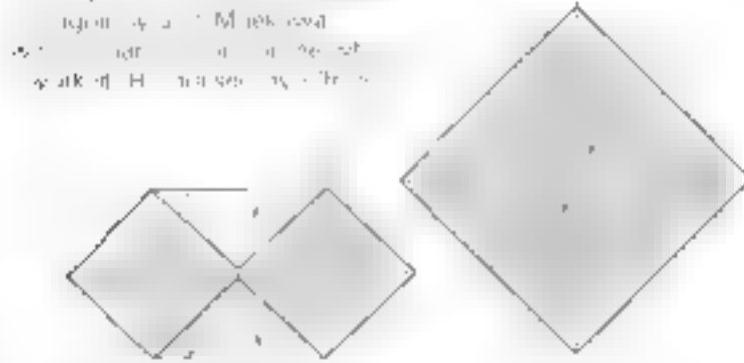


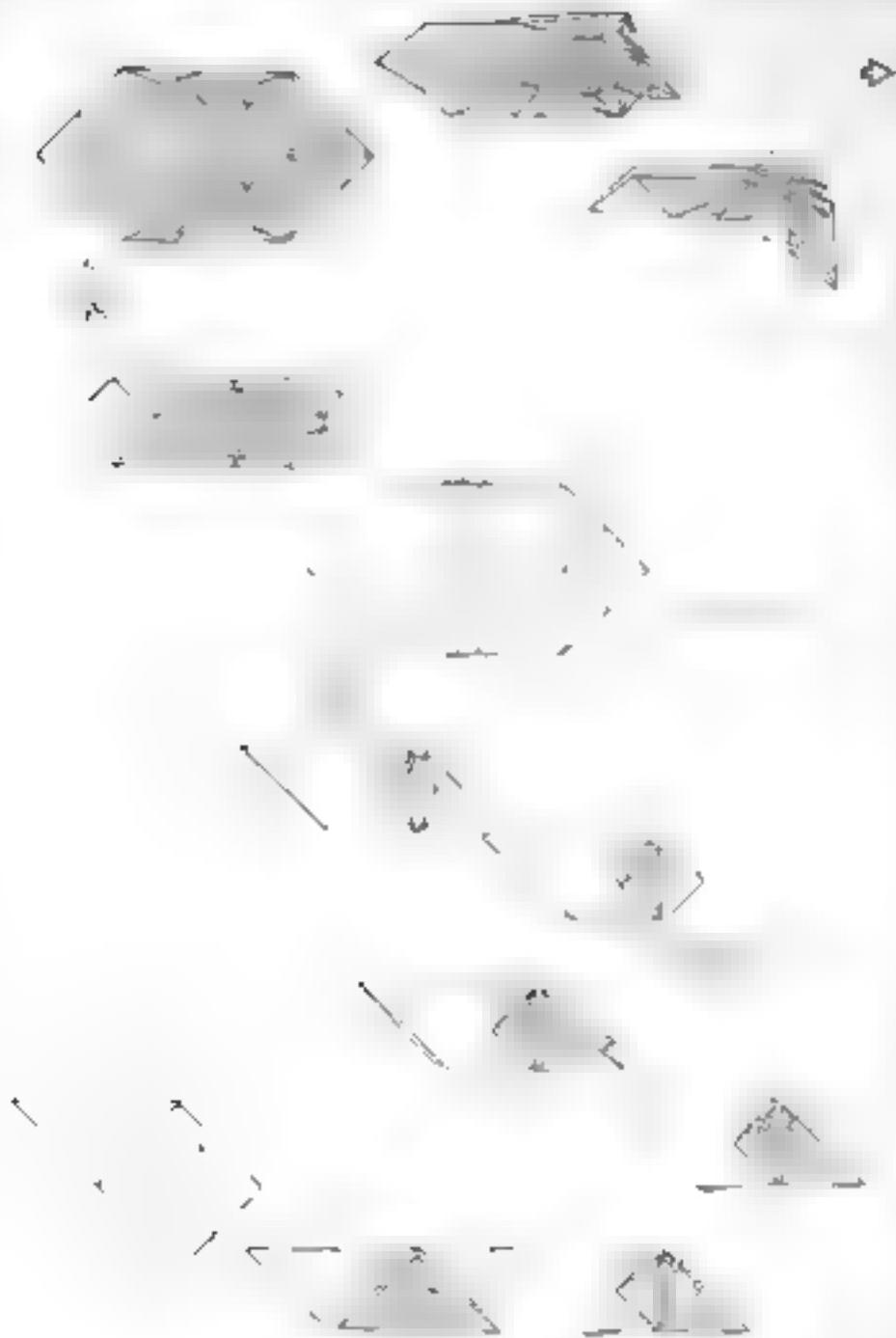


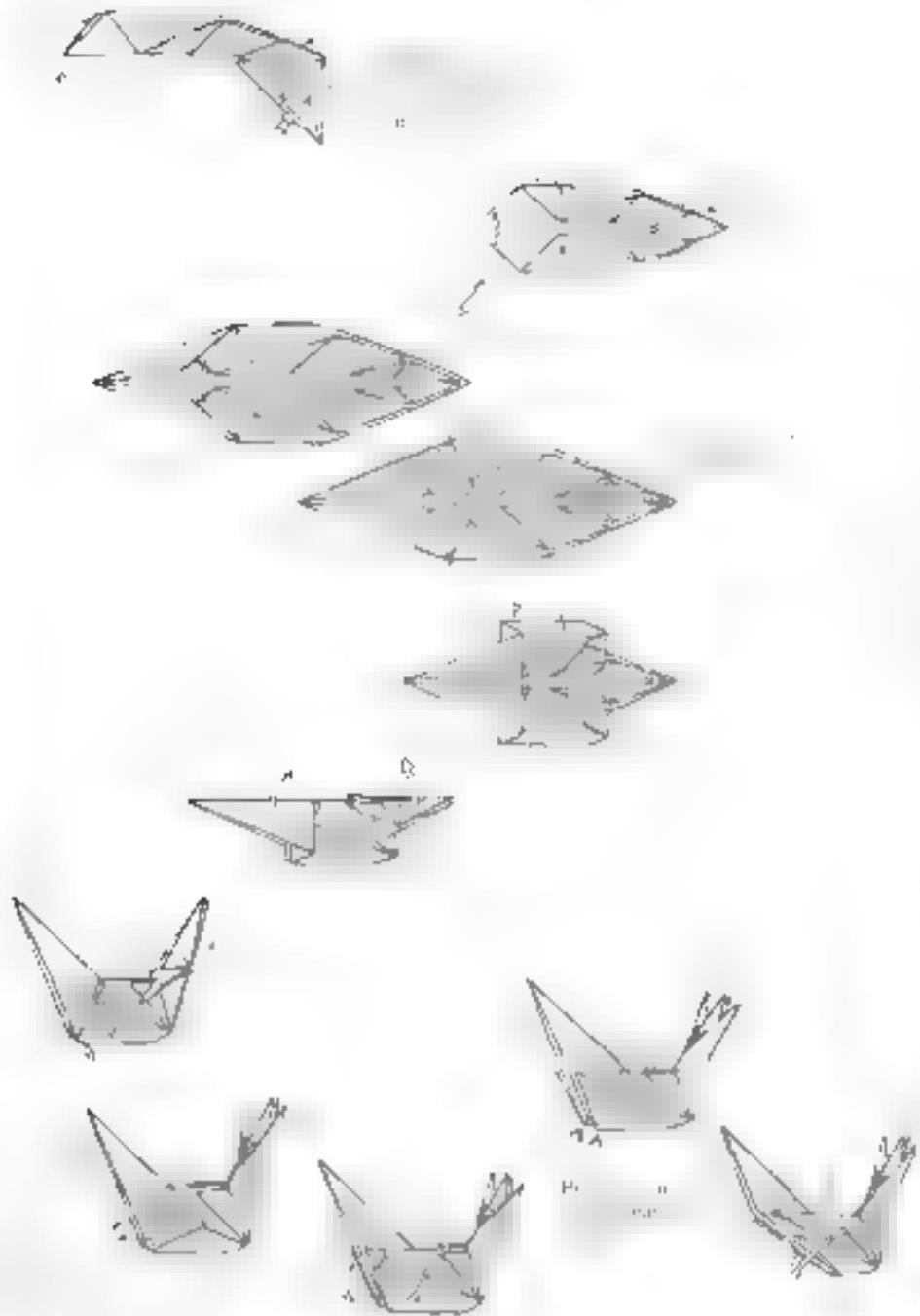
Dragon

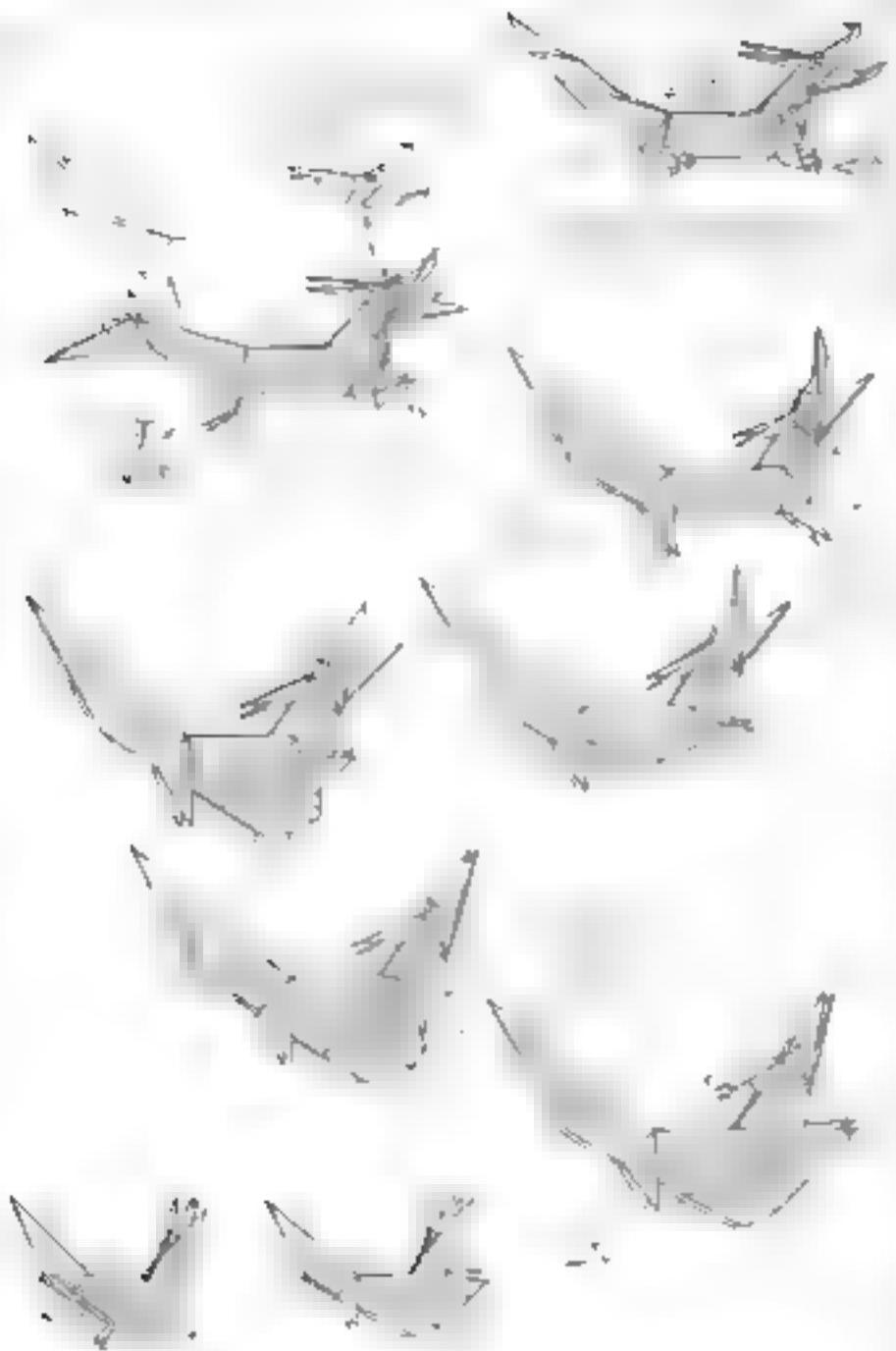


For represent my dragon
dragon of a 'Mystical
dragon of the ocean
of the dragon of the sea'



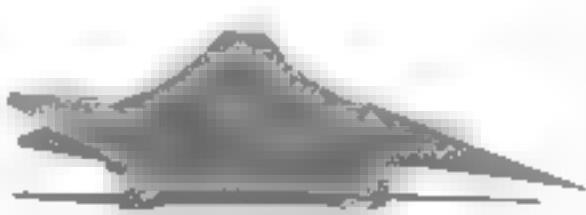




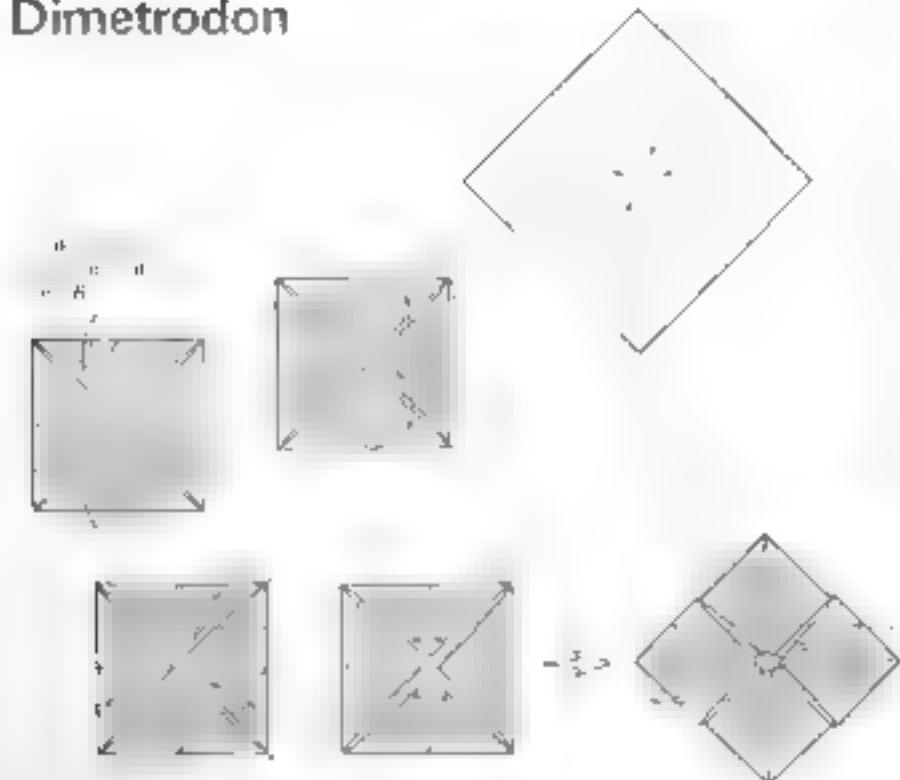


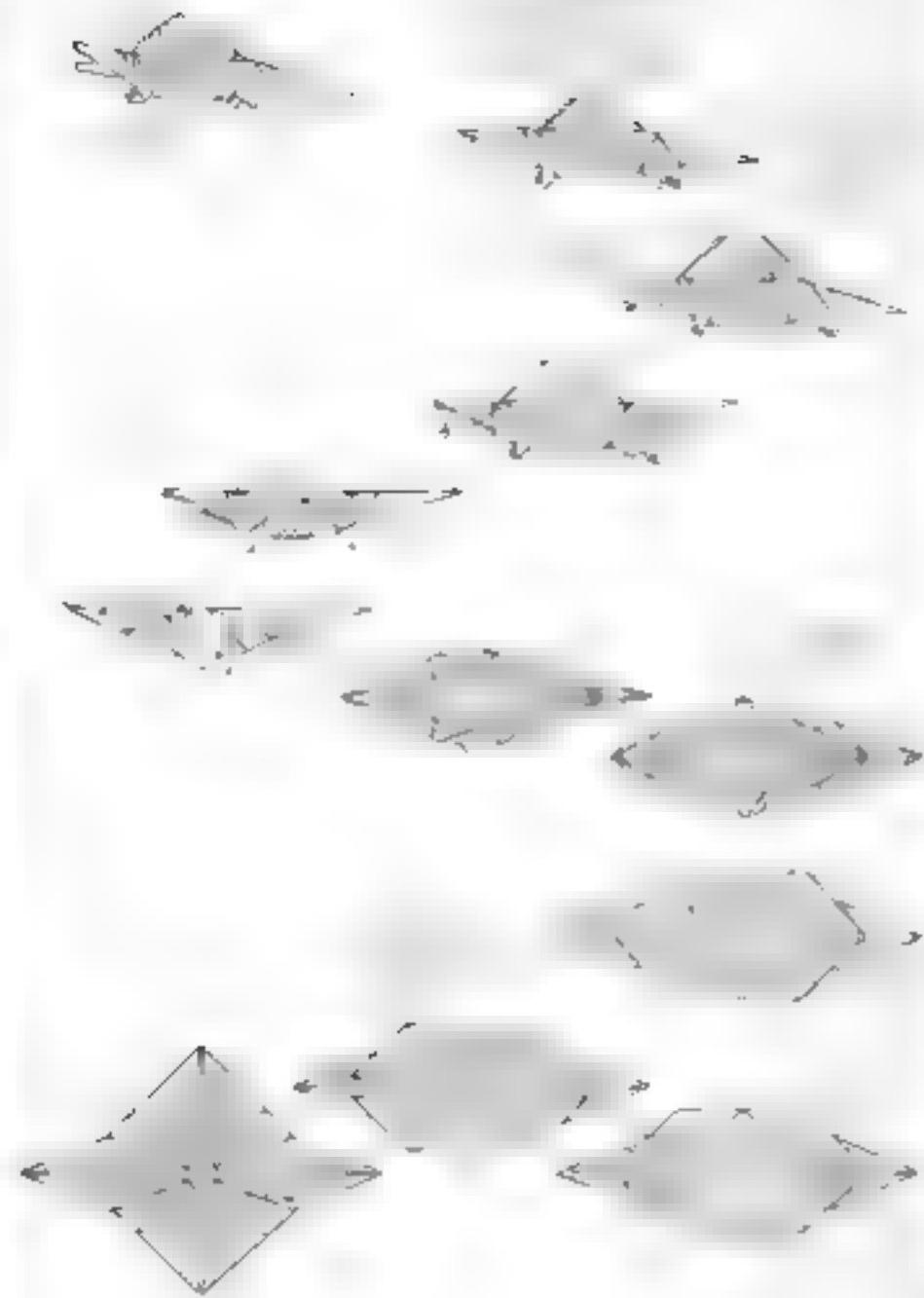
The Lost World of the Dinosaurs

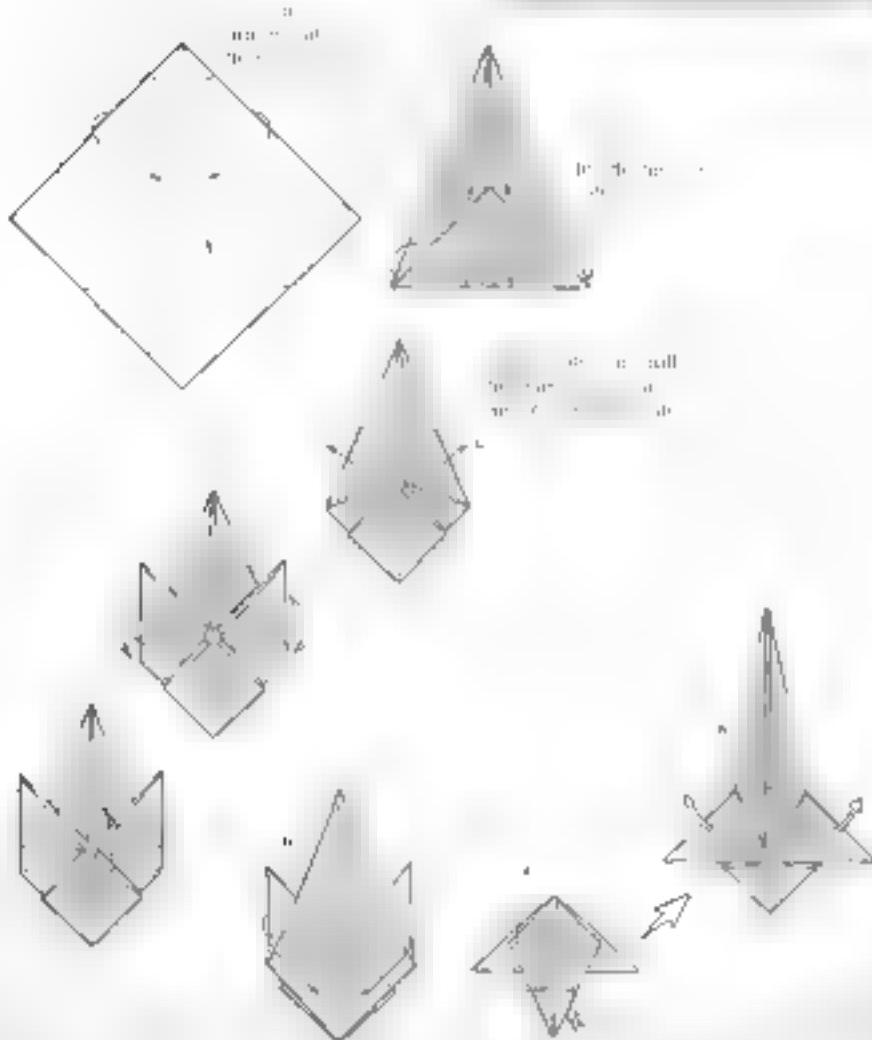
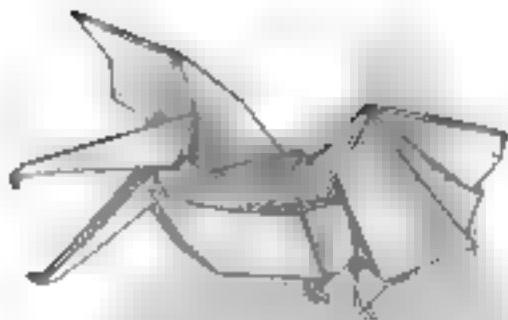
The more I have read about the lost world of the dinosaurs, the more I am struck by how much we still don't know. As in science, home is always expanding the knowledge base, but it's also true that the edges of this field are very sharp. If you're interested in paleontology or just a good story, I would highly recommend this book. It's well-researched and well-written.



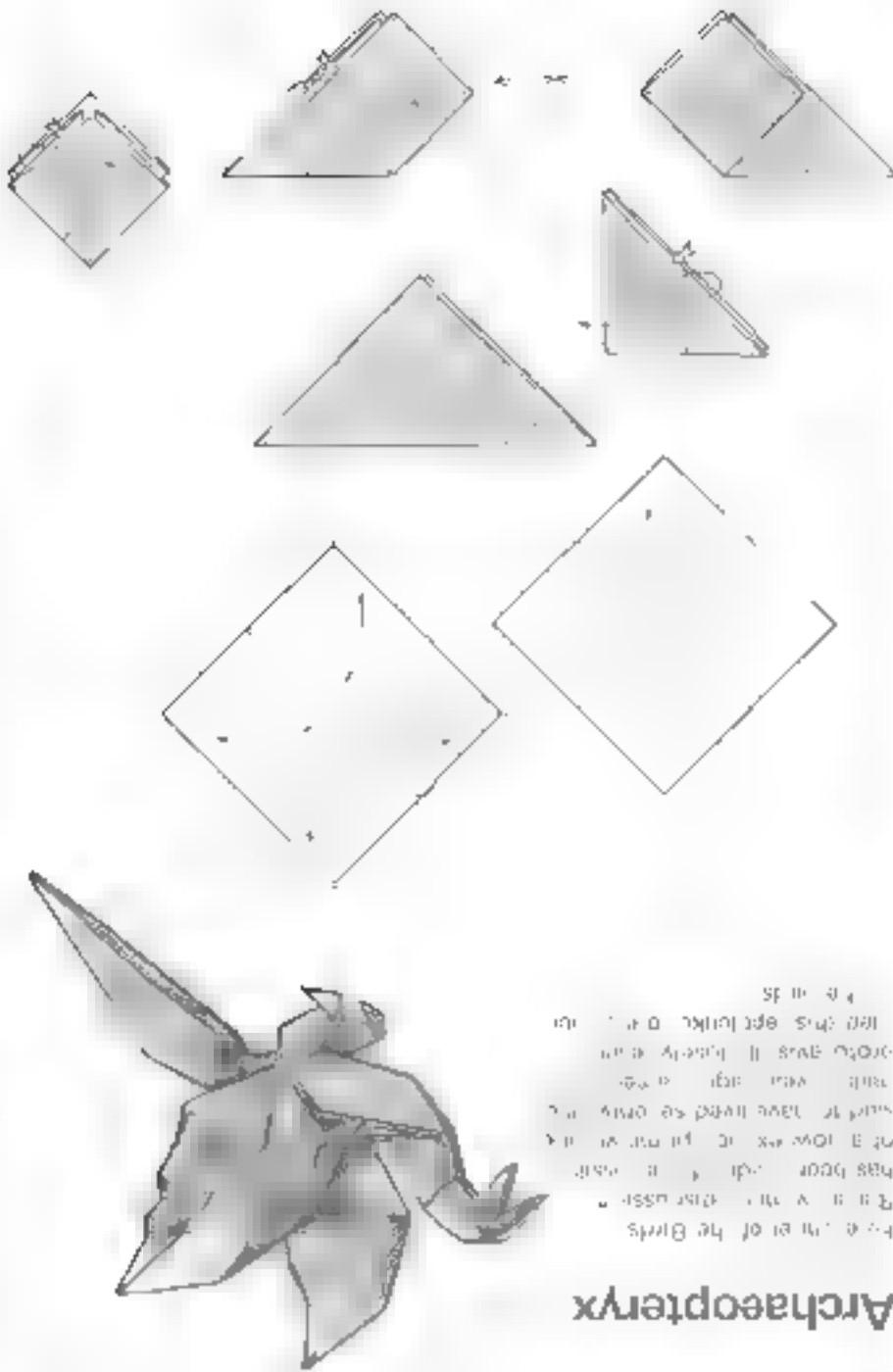
Dimetrodon





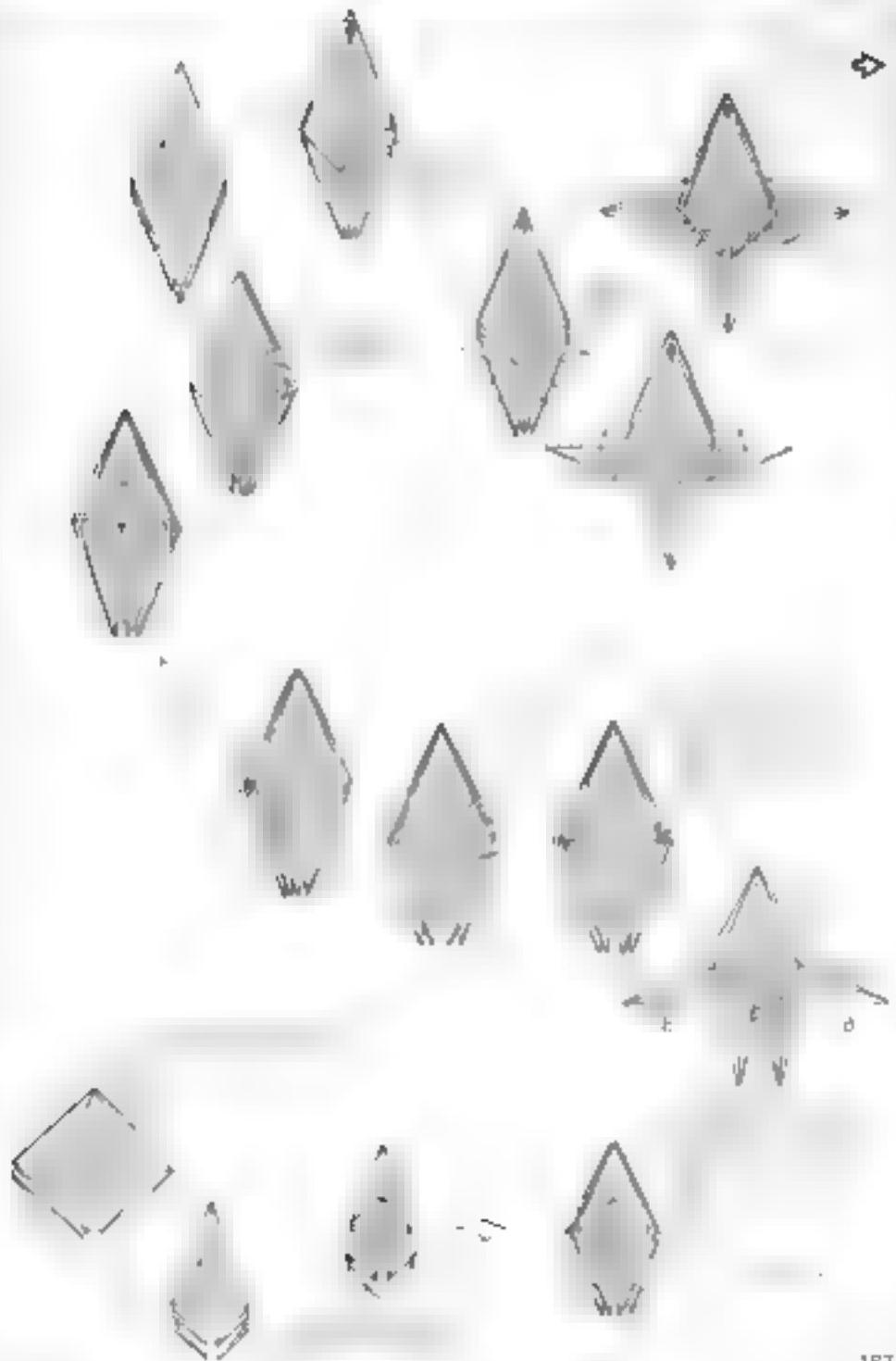


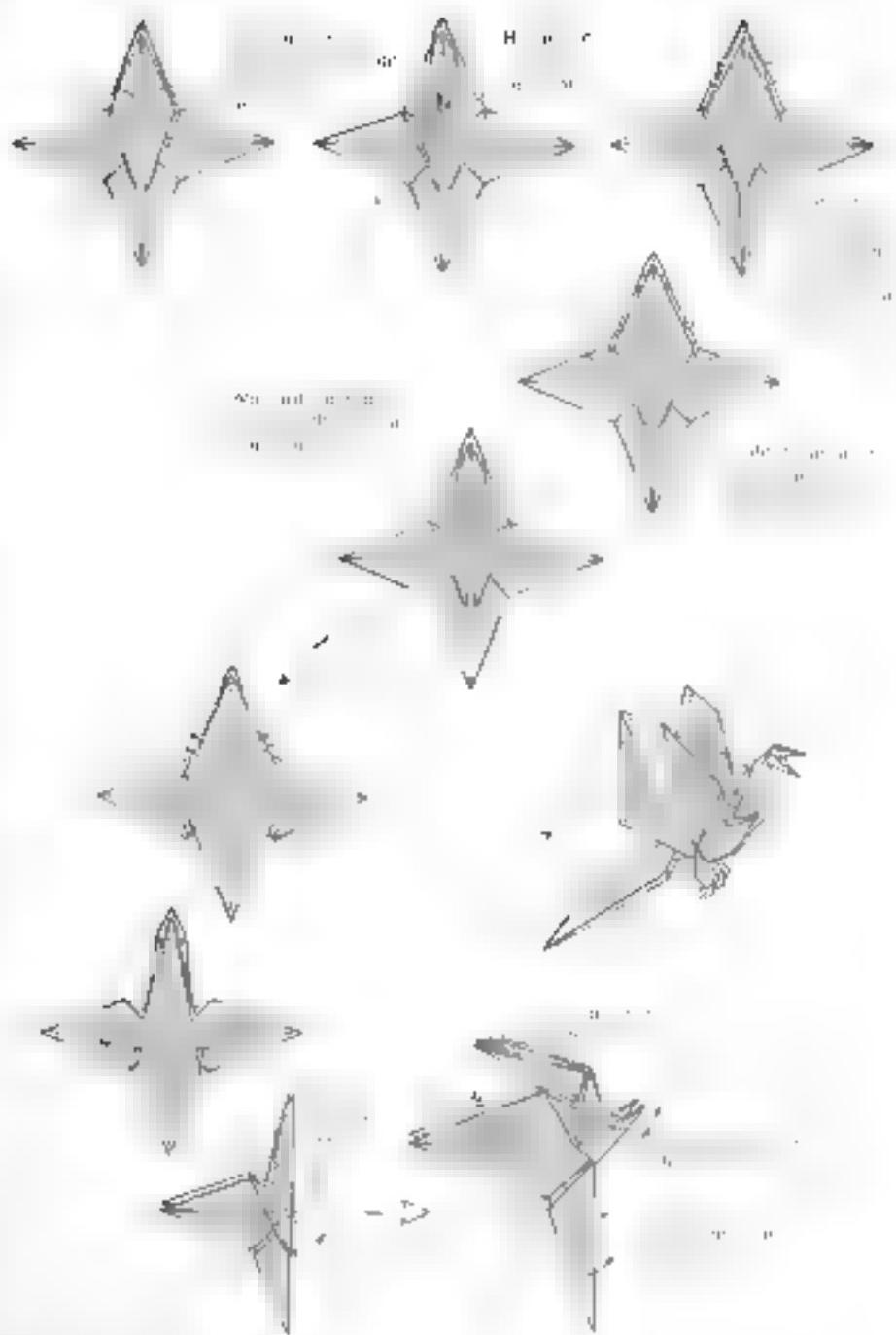




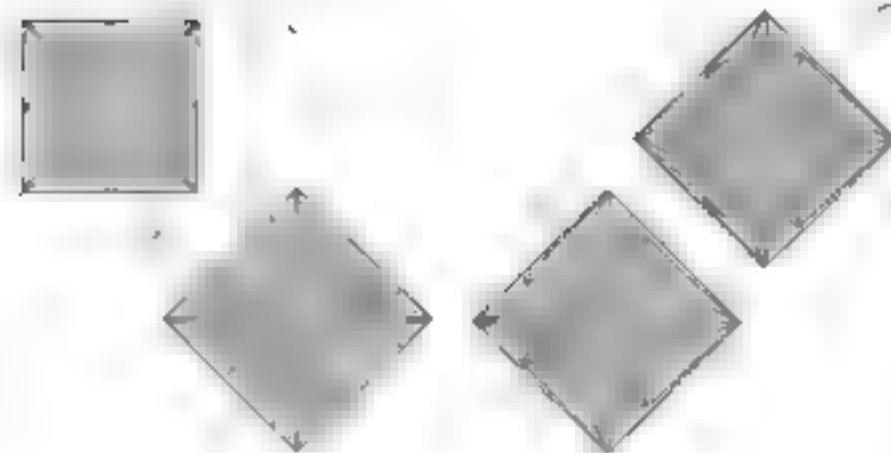
The first fossil
of Archaeopteryx
was found in 1868
in a limestone
layer in Solnhofen
in southern Germany.
The fossil was
described by the
naturalist Hermann
von Meyer.

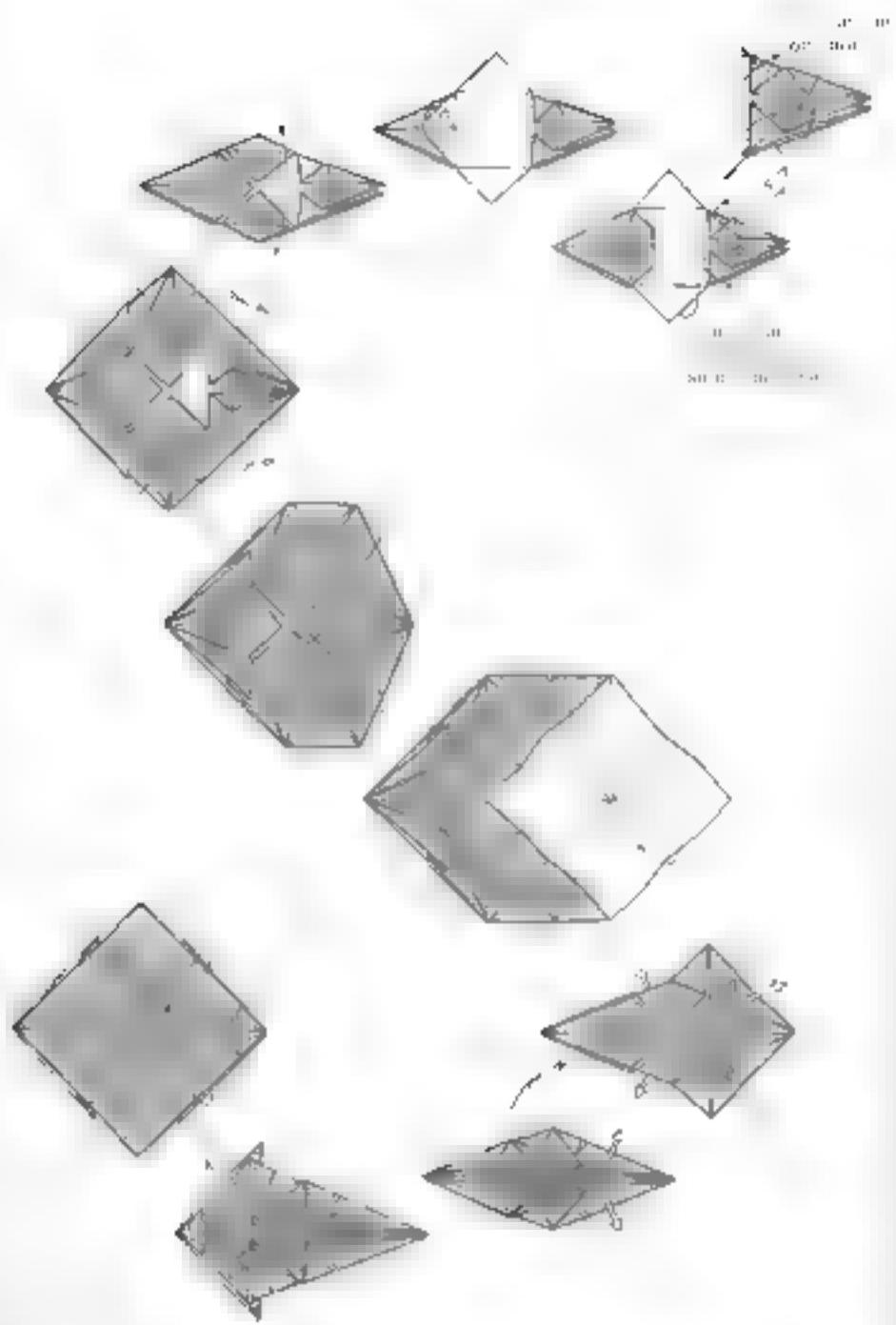
Archaeopteryx

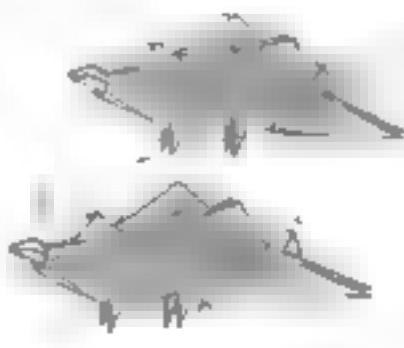
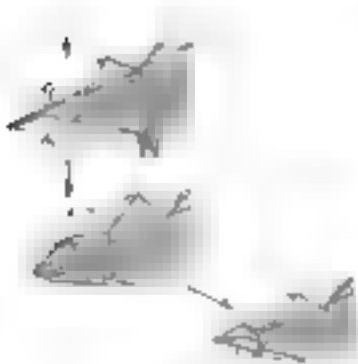
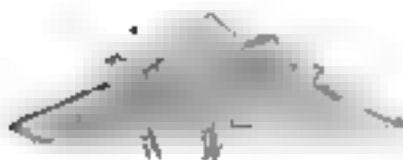
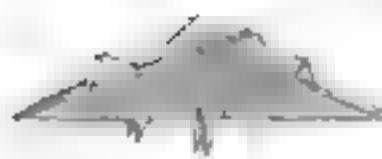
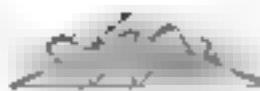
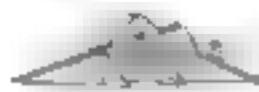
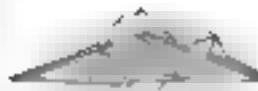




Stergosaurus

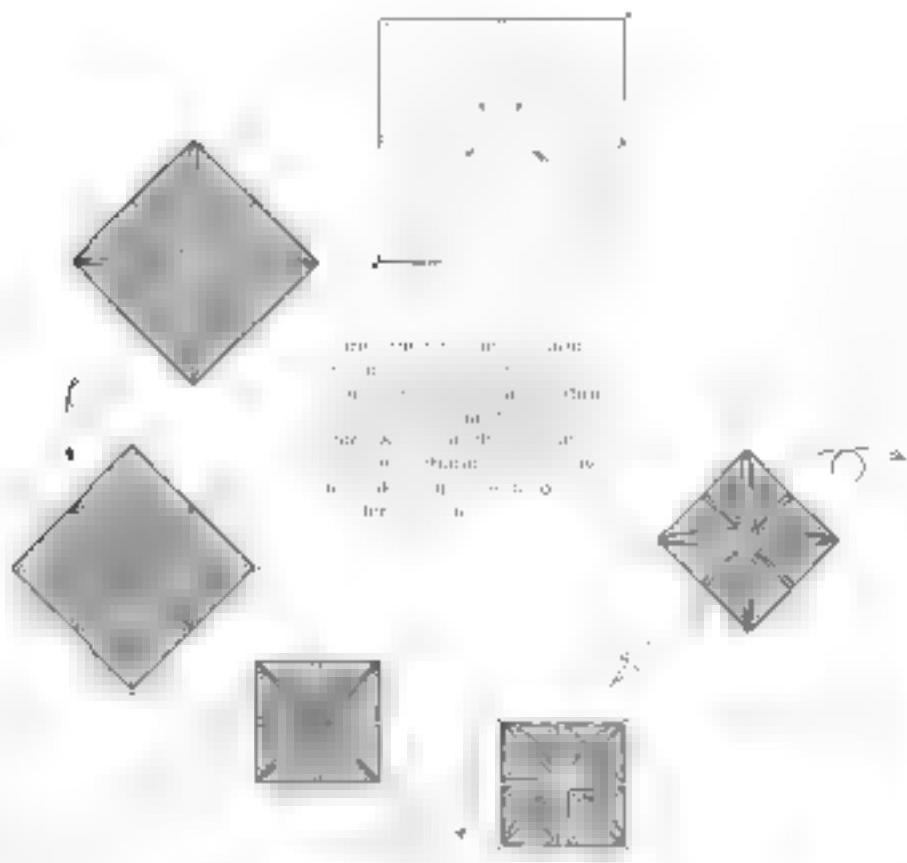
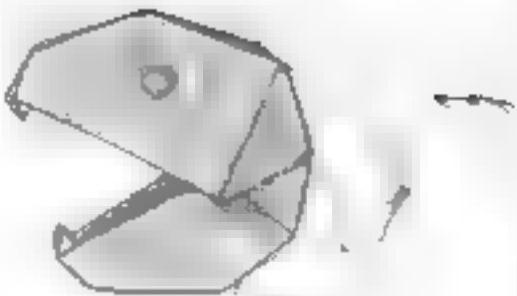


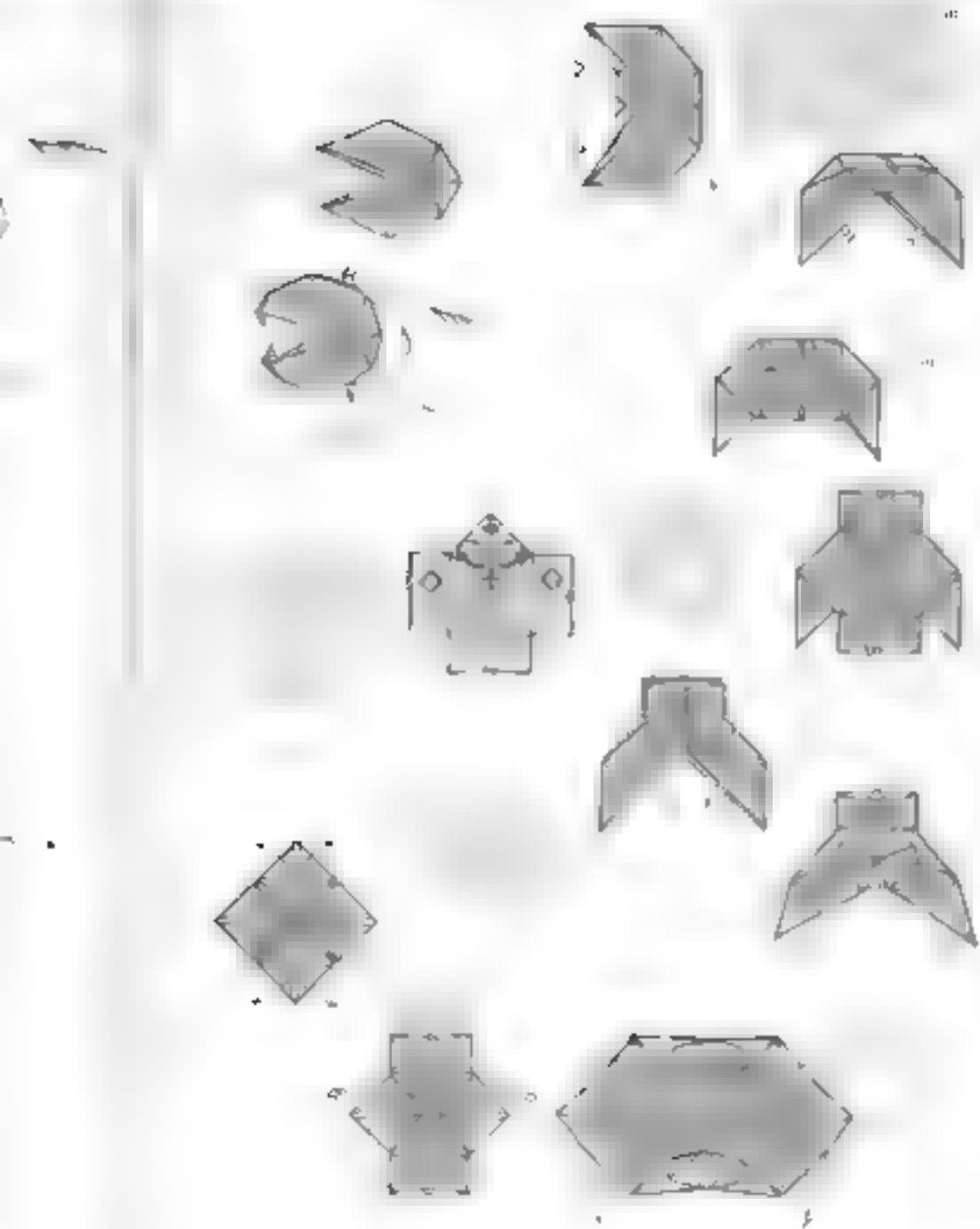




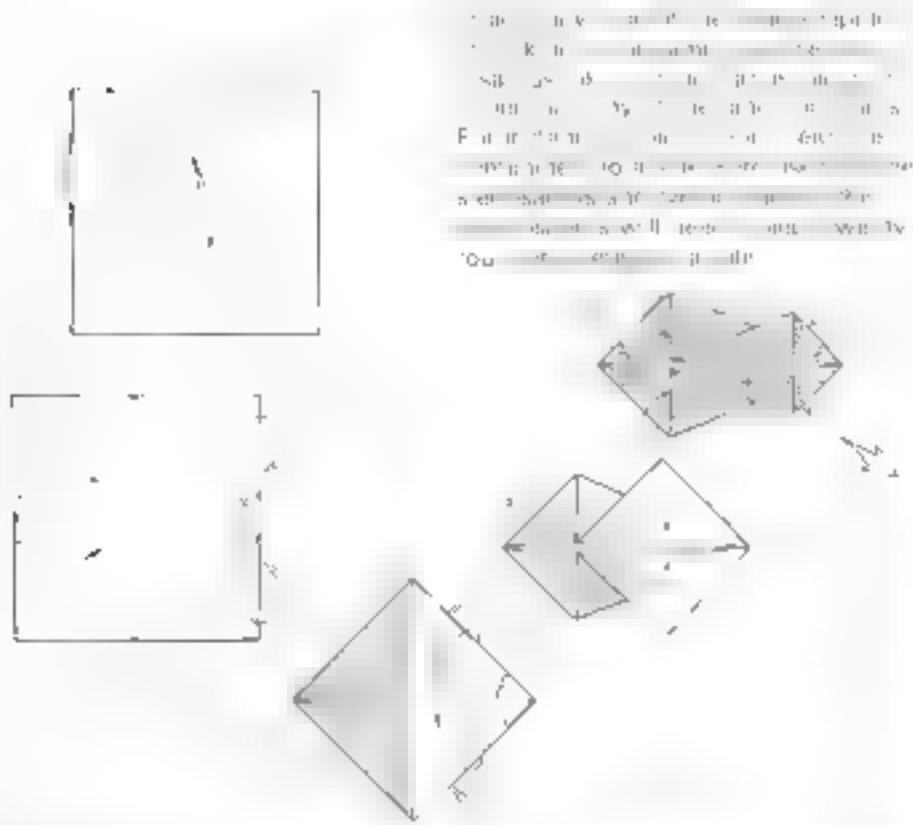
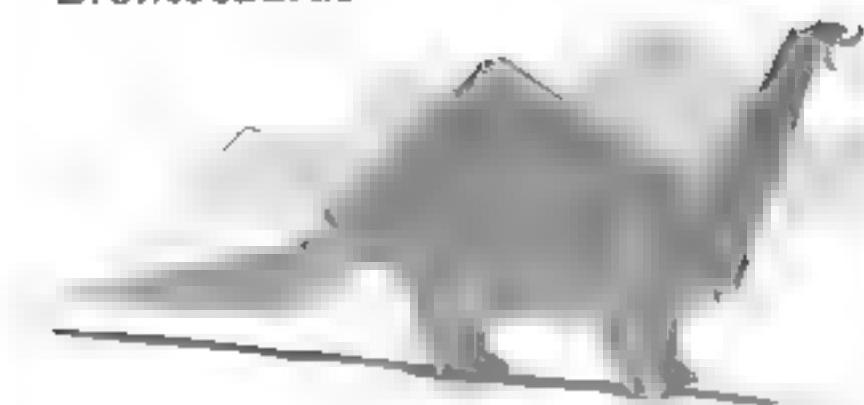
Tyrannosaurus Head

The diagram is intended to be illustrative. Although the diagram is 90° to the left of the right-angle point at which the valve opens and closes, it is not to be taken as such.



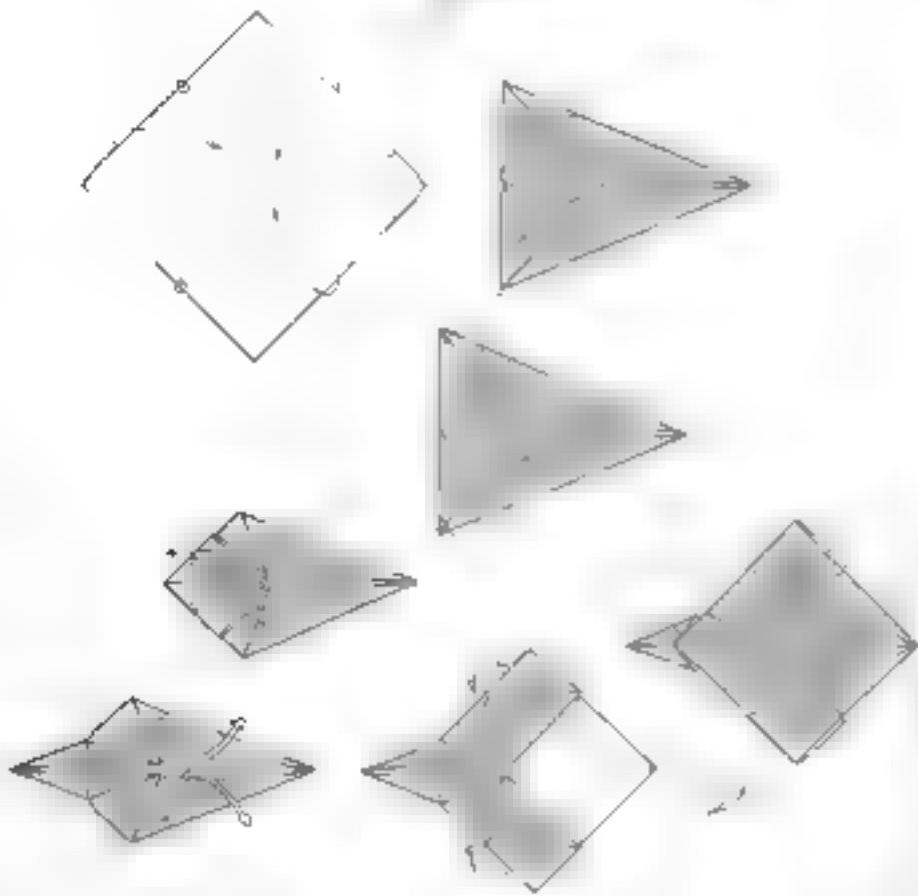
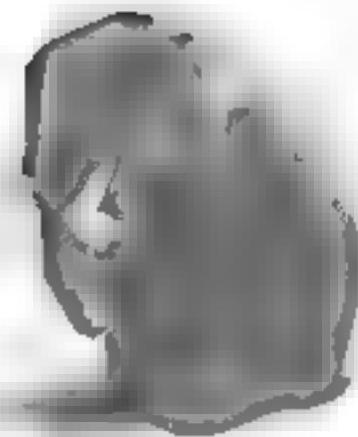


Brontosaurus

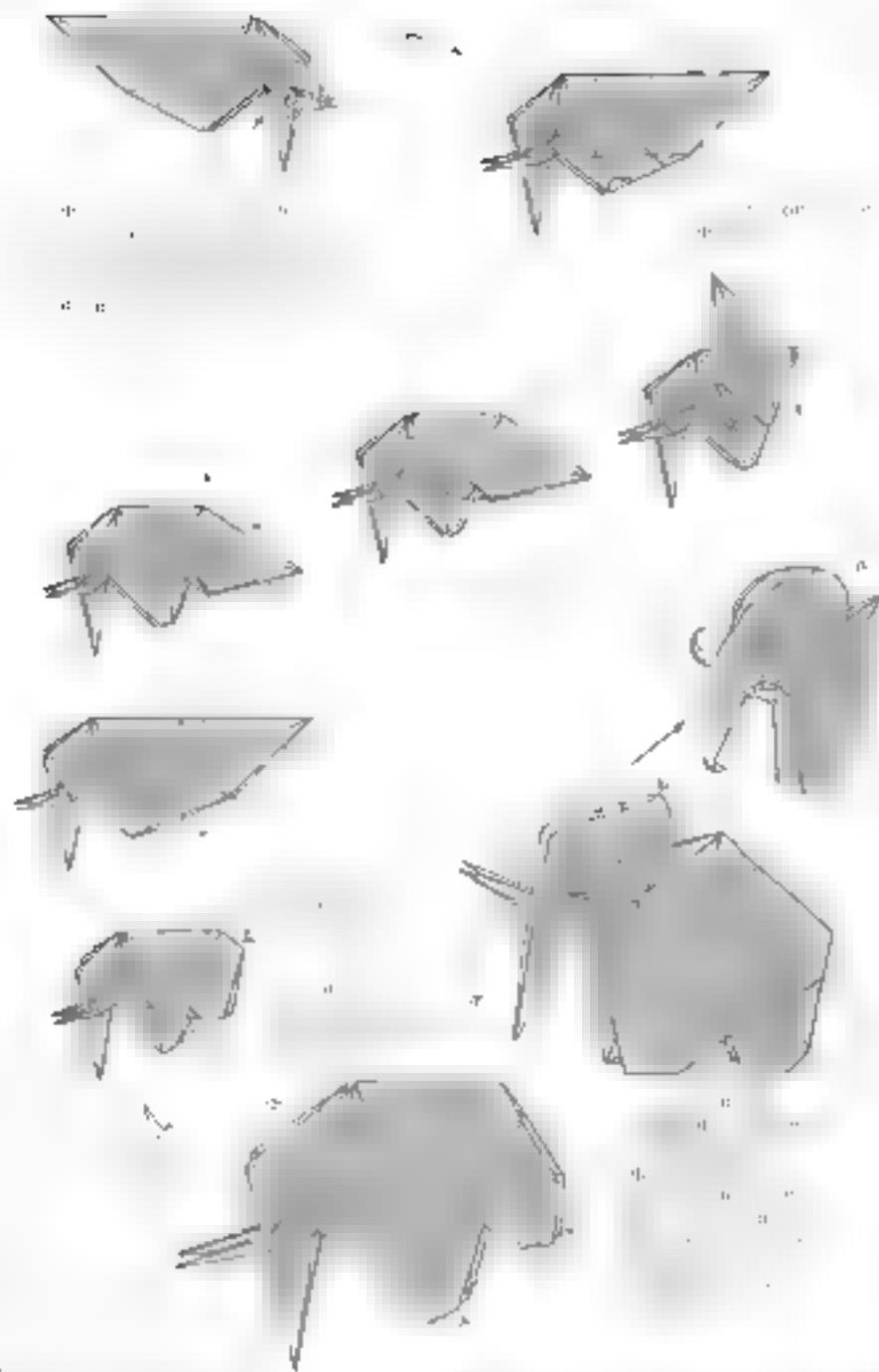


Mammoth

• SB 3. Blue & yellow
• 100% cotton
when you wash it
it's cold



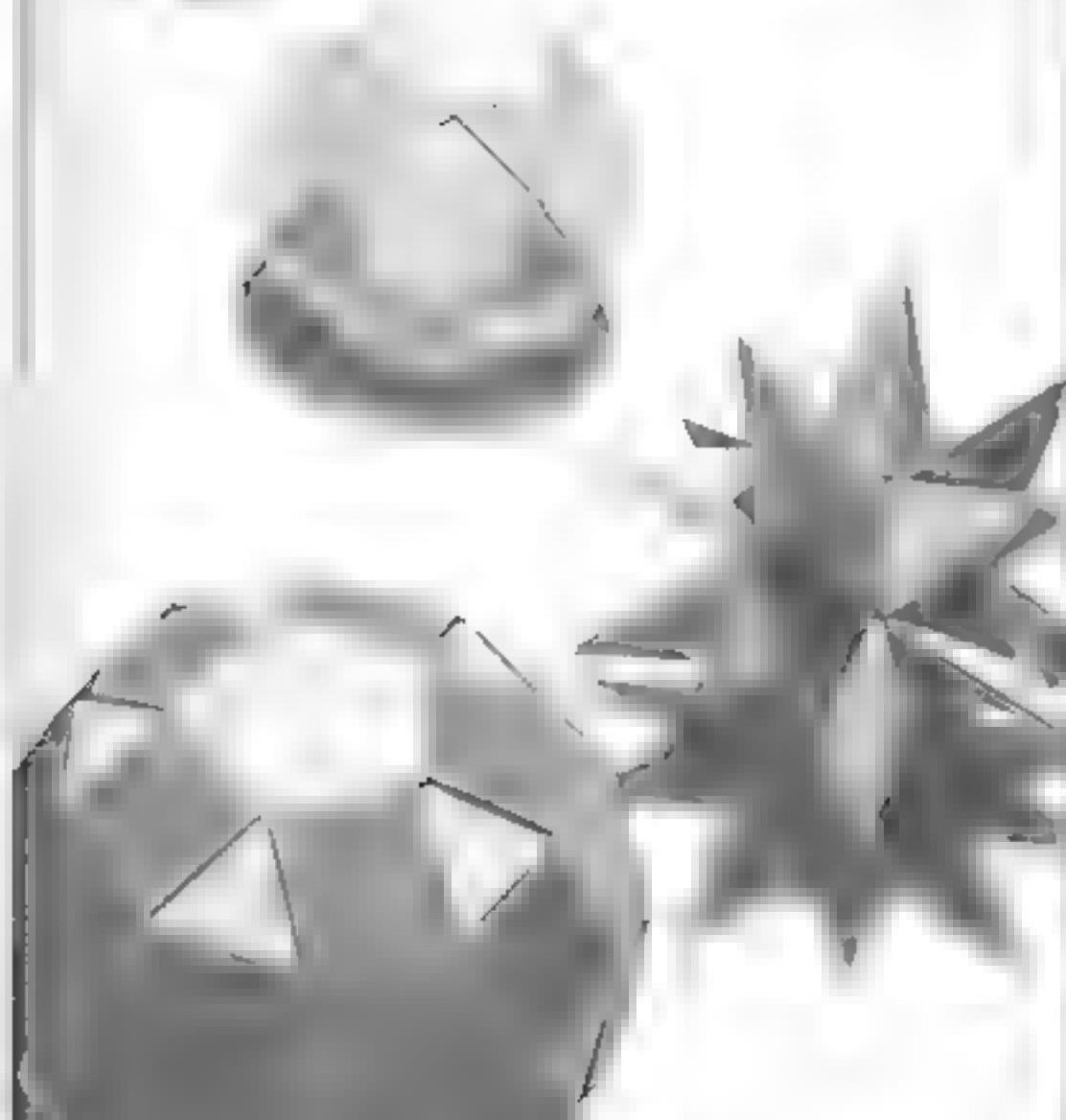






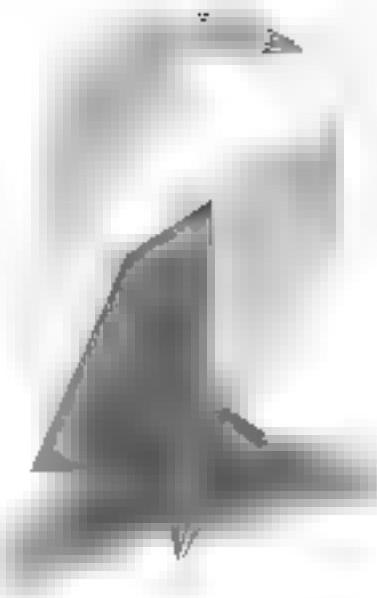
Chapter 5

Beautiful Polyhedrons



Introduction to a New World

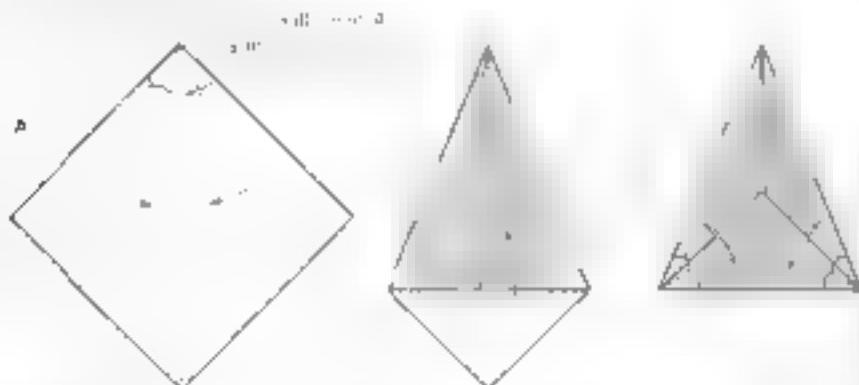
Getting to know a number of people including N. S. Nagai, Terada, Hisao, Abe, Professor Saito, Mrs. Kōki Hashimoto and Jun Miyazawa, I would like to say that my mistaken notion of my interest in geometry at first of the idea of using origami as a way of learning must have been quite wrong. These women from temples have helped me and my associates know what is unique in Japanese culture which should be introduced all over the world. But instead of saying his task of writing in his endeavor as a lesson of Japanese culture, I would like to say how you could be interested in this field through your own interests as you practice making a number of folds. As you have done his book the text which concerns it is their art and some geometric figures, pentagon, regular polygon, hexagon, etc., are drawn in some of the foldings. This is to break the reader's

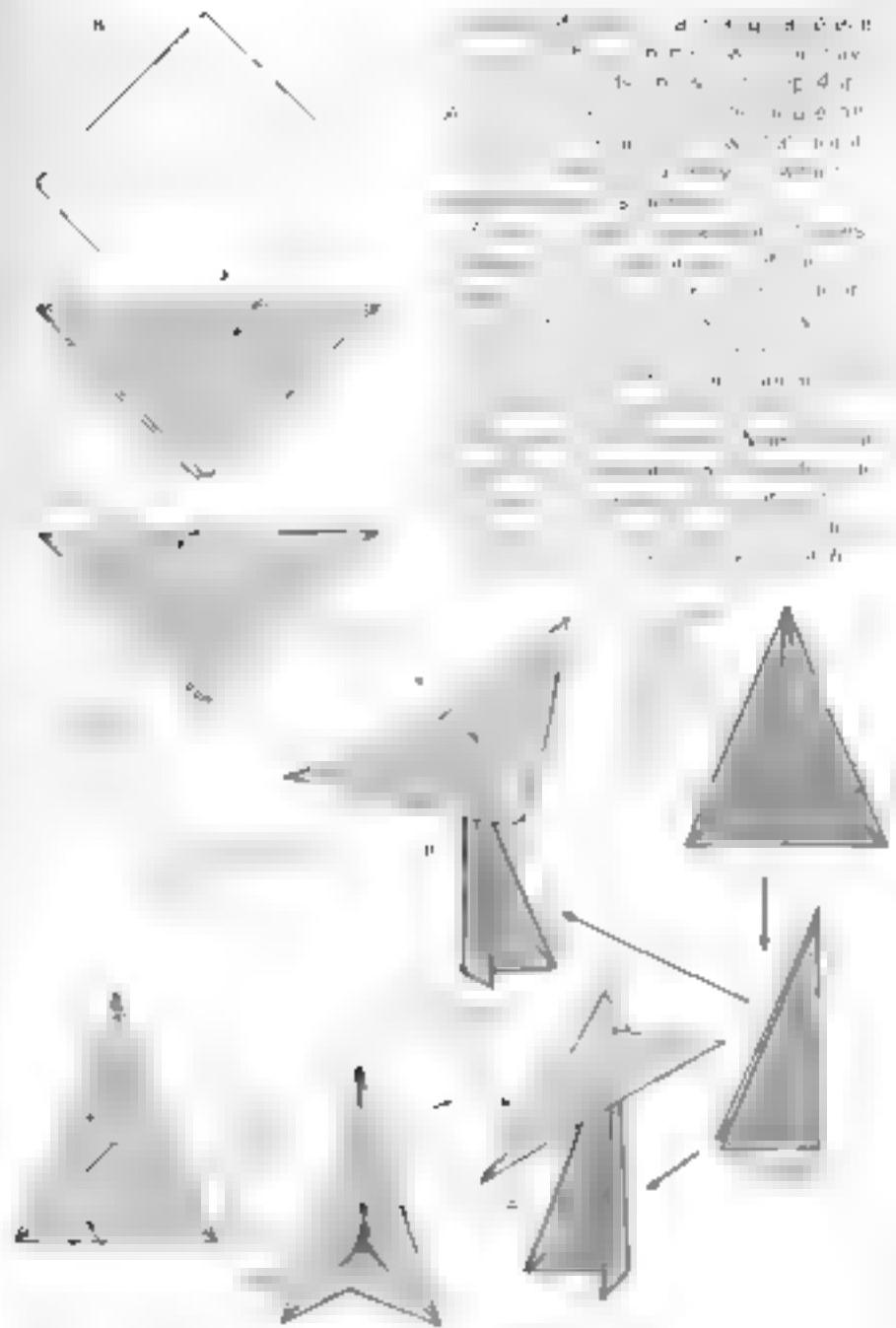


Using the Japanese way to learn

about Mr. Miyazaki Hashimoto. Once remarking that an artist's work will not be made by using the scientific activity, he said it at the opening of

Fox Mobile





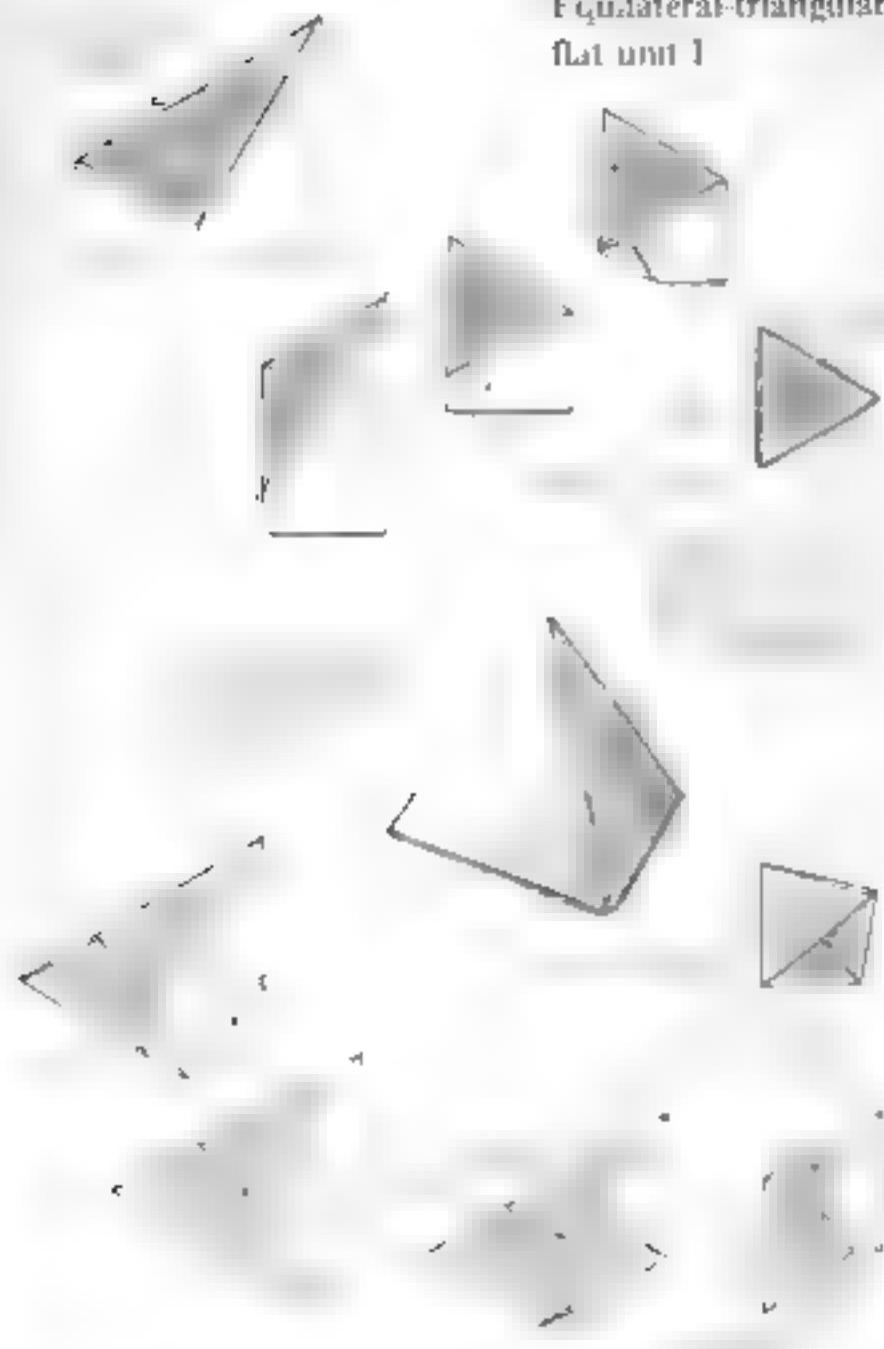
Bottomless Tetrahedron and an Equilateral-triangular Flat Unit I

Now we see the only four ways
with which to build up
a tetrahedron with three flat units
and one bottomless tetrahedron.
The first way is to take the three flat
units and one bottomless tetrahedron
and put them together.
The second way is to take the three flat
units and one bottomless tetrahedron
and put them together.
The third way is to take the three flat
units and one bottomless tetrahedron
and put them together.



Equilateral-
triangular pyramid
(or a bottomless
tetrahedron)

Equilateral-triangular flat unit 1



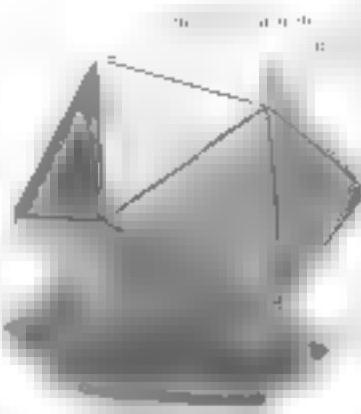
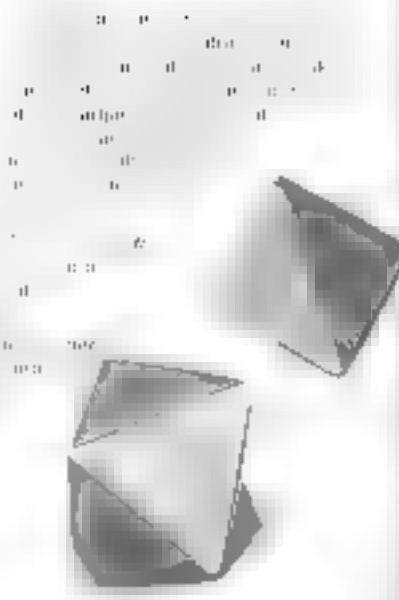
Equilateral triangular Flat Unit II

as in the case of the following
which I hope you will find agreeable.
I seem to be in a fit state to
go. But have my best regards.

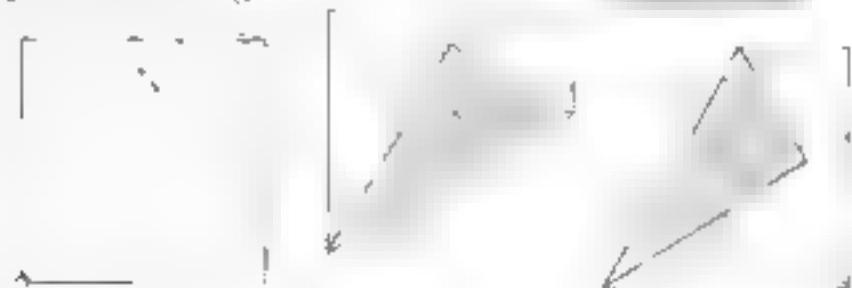
Before examining some of the data, it is important to note the method used to make it. In Section A, after determining F , the Δ 's were measured at 10° intervals and all data points were plotted.

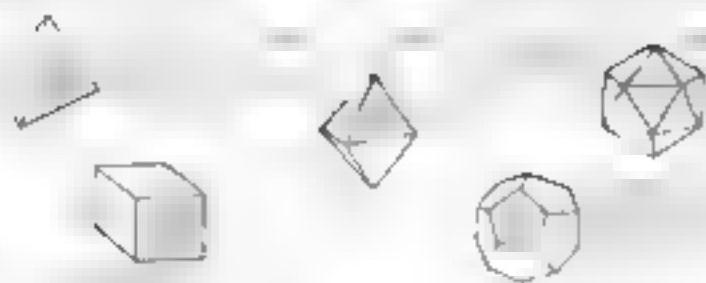
For example, from the Ga. Dept. of Natural Resources, we see that the state's wolf population has increased from 100 in 1995 to 300 in 2005. The DNR also reports that the wolf population in Minnesota has increased from 100 in 1995 to 300 in 2005.

The first option here would be to use the units & copies feature. This will help you to keep the accountability of who used the tool, when, and if any of the changes were made. In addition, you should know which user did what by looking at the tree and not fully loaded up showing them as just



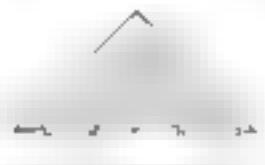
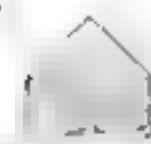
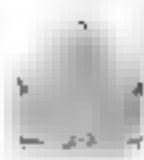
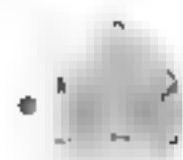
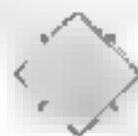
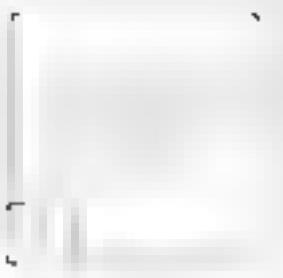
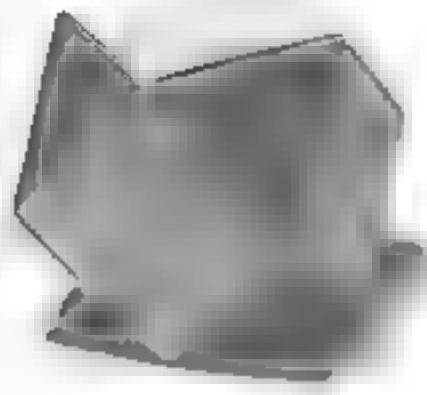
Equilateral-Triangular Unit





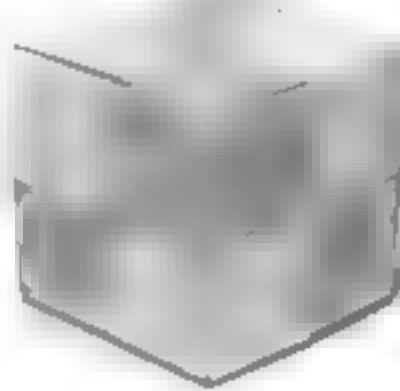
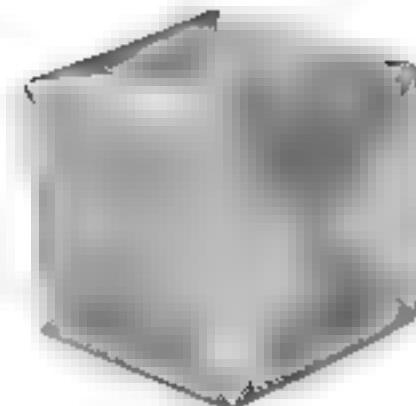
The regular polyhedra



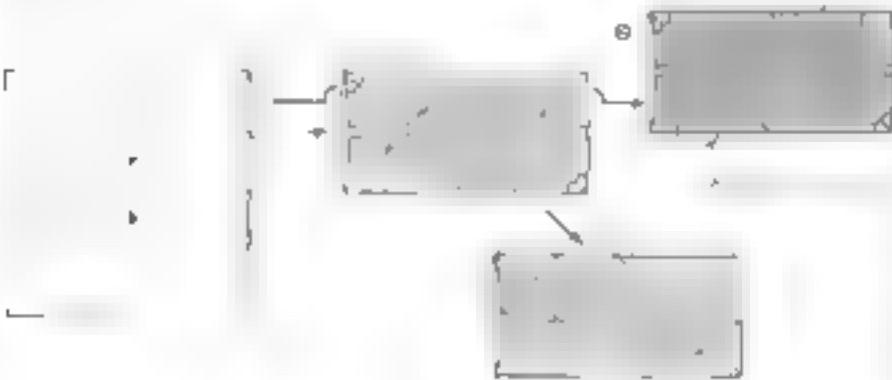


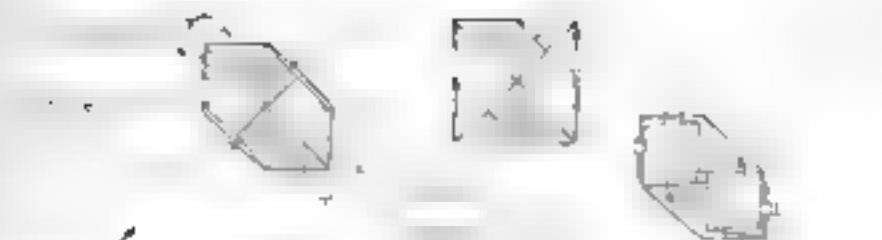
Module Cube

Medium: aluminum, 6061-T6
Dimensions: 100 mm x 100 mm x 100 mm
Weight: 1.5 kg
Volume: 1 liter
Material: R-type Tungsten carbide
with which have 10 mm diameter and
effectively about 10000 rpm.
On the other hand, it has
own weaknesses and has the risk
to A-type Square (Fig. 1) and
to F-shaped Break (Fig. 2).
all into one single point. They
are not known to us, however, to
use F, the more because it has
a very high probability of
breakage and it is very difficult
and dangerous to repair it.
The main part of the
module is the base plate.
Square & circular hole
siderer the source of most errors
and the base plate is therefore
not more than 10 mm thick.
Surface parts

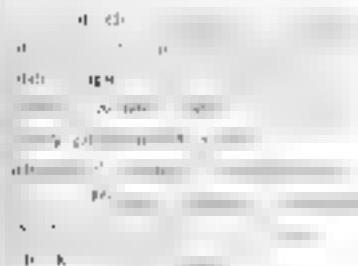


Dice units

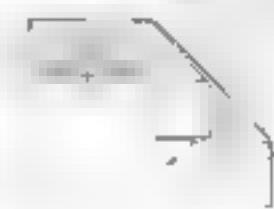
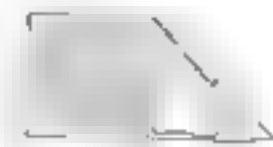
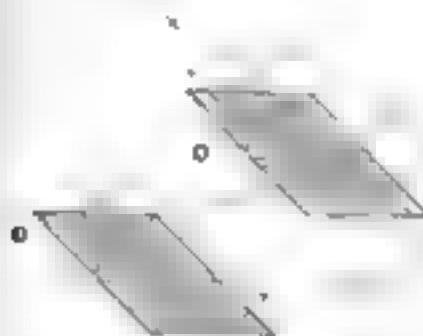




Checkboard pattern

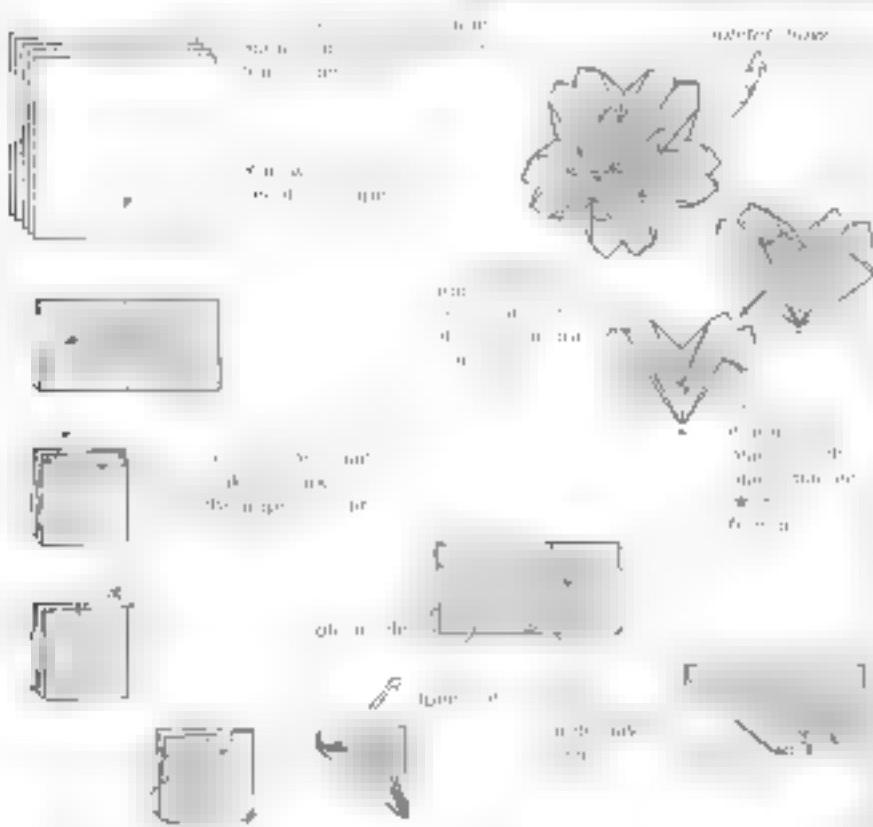


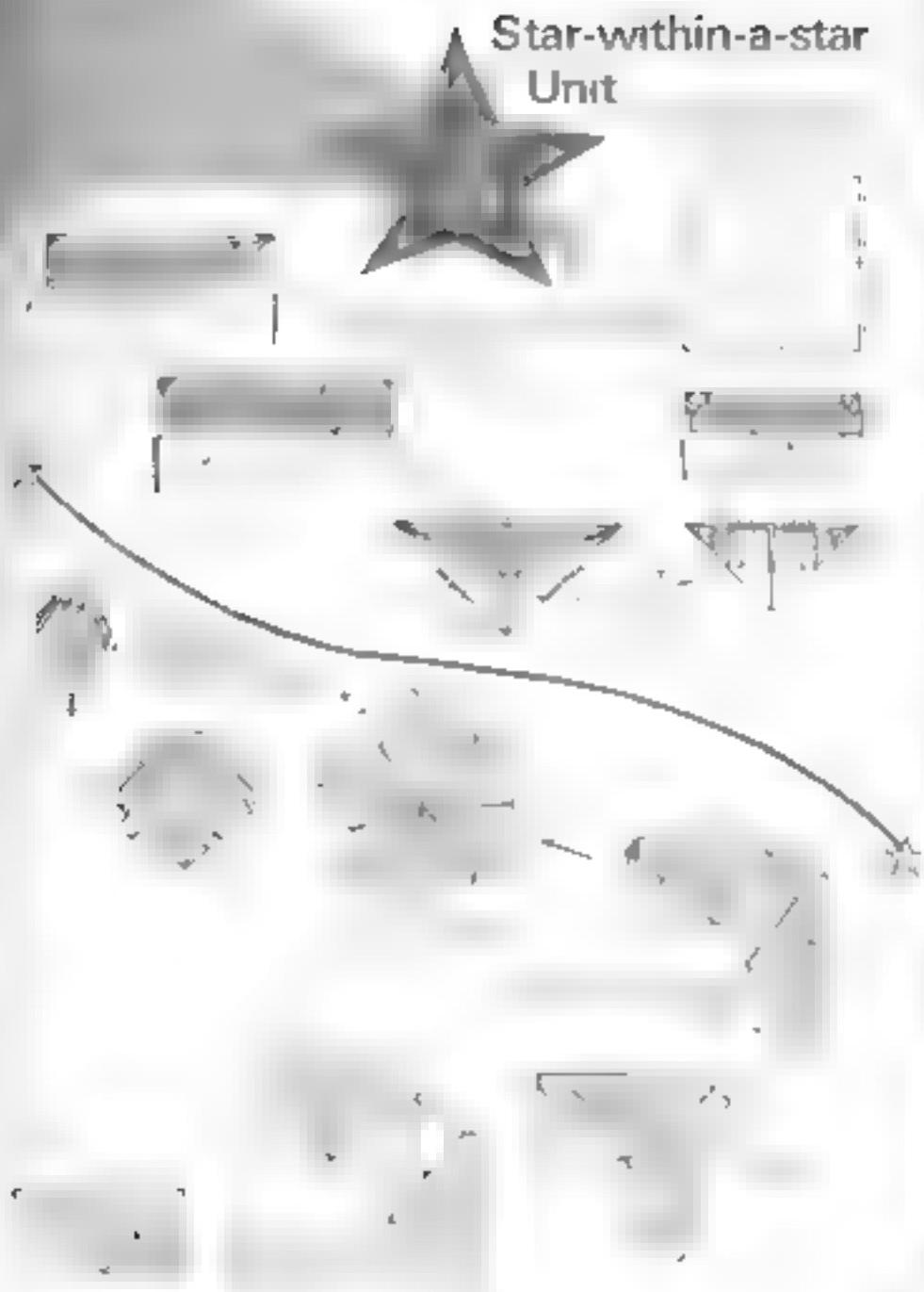
Pinwheel pattern



Cherry-blossom Unit

Through weekly visits, discussion of
cherry blossoms, and writing, the children
will learn about the life cycle of
the tree and its blossoms. They
will also learn about the different
types of blossoms and the
adaptations of the system
for reproduction. The children will
also learn about the life cycle of
the tree.



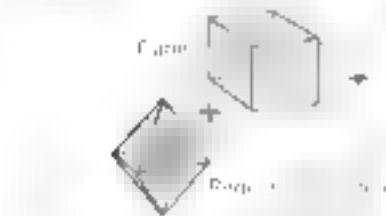


Combining the Cube and the Regular Octahedron

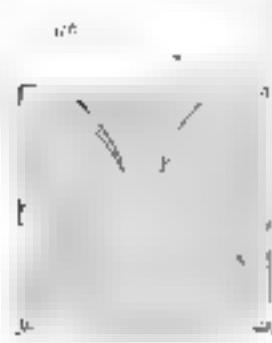
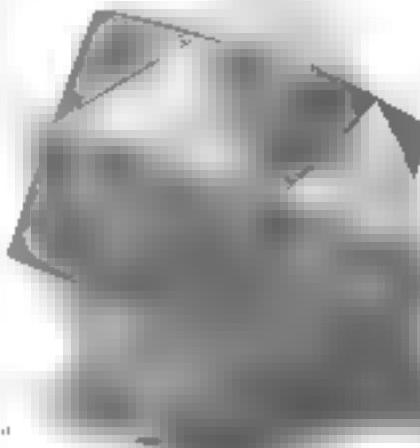
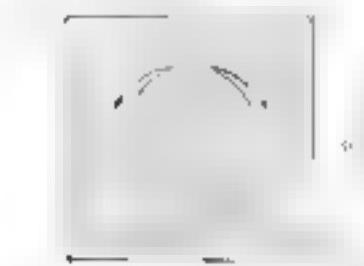
As a continuation of the last two lessons, we will now learn how to combine the cube and the regular octahedron.

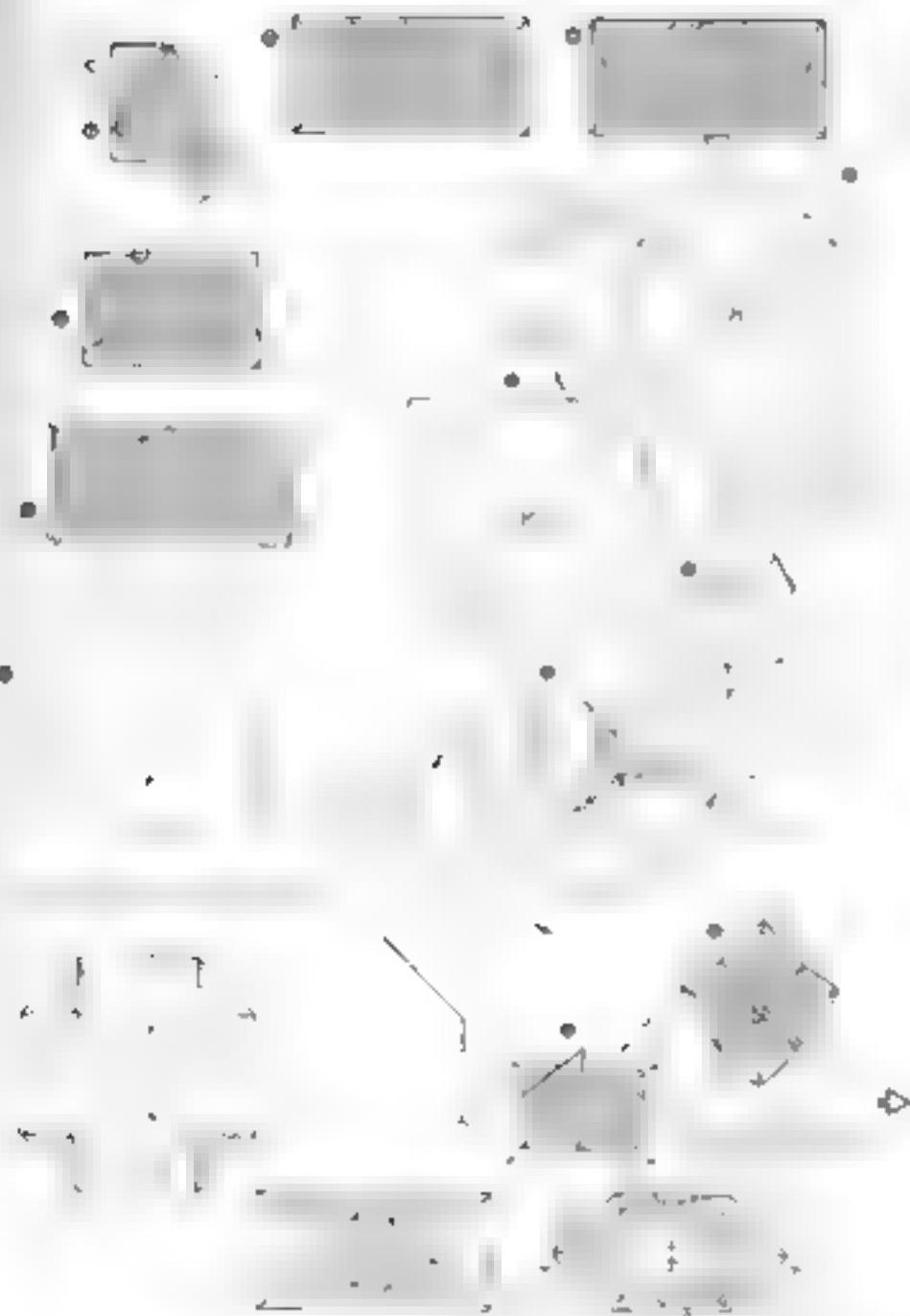
In addition to the cube and a regular octahedron, you will need:

- Scissors
- Glue



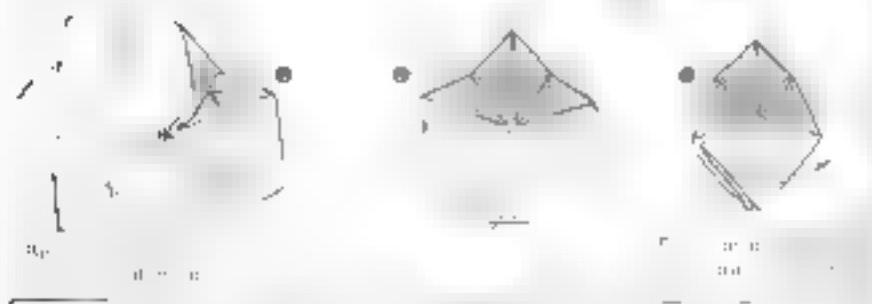
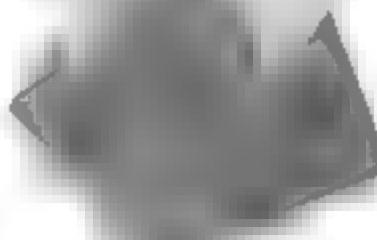
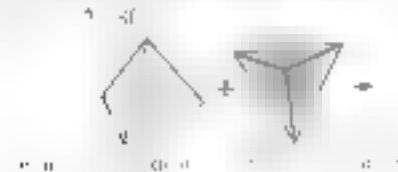
Materials required:





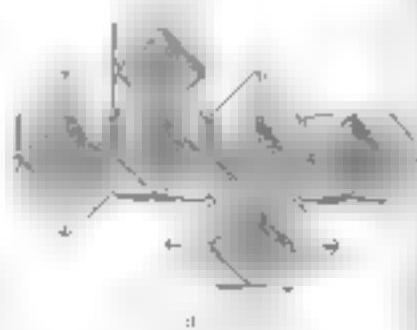
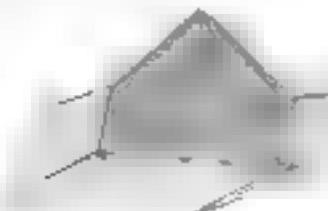
Union of Two Regular Tetrahedrons Kepler's Star

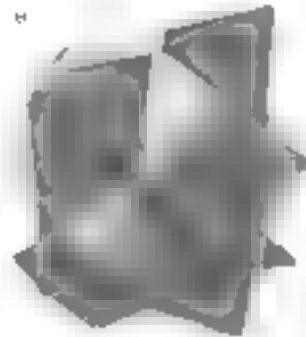
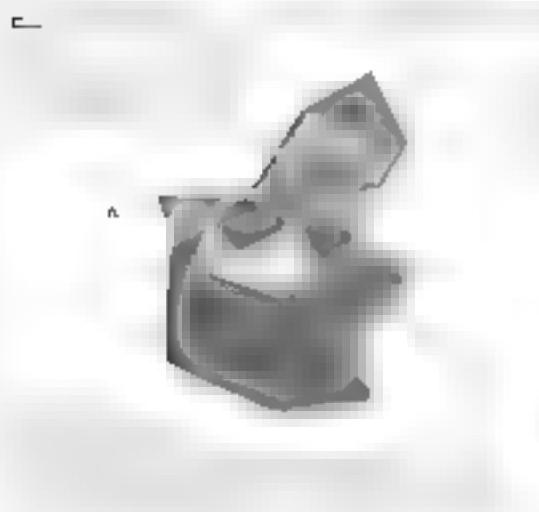
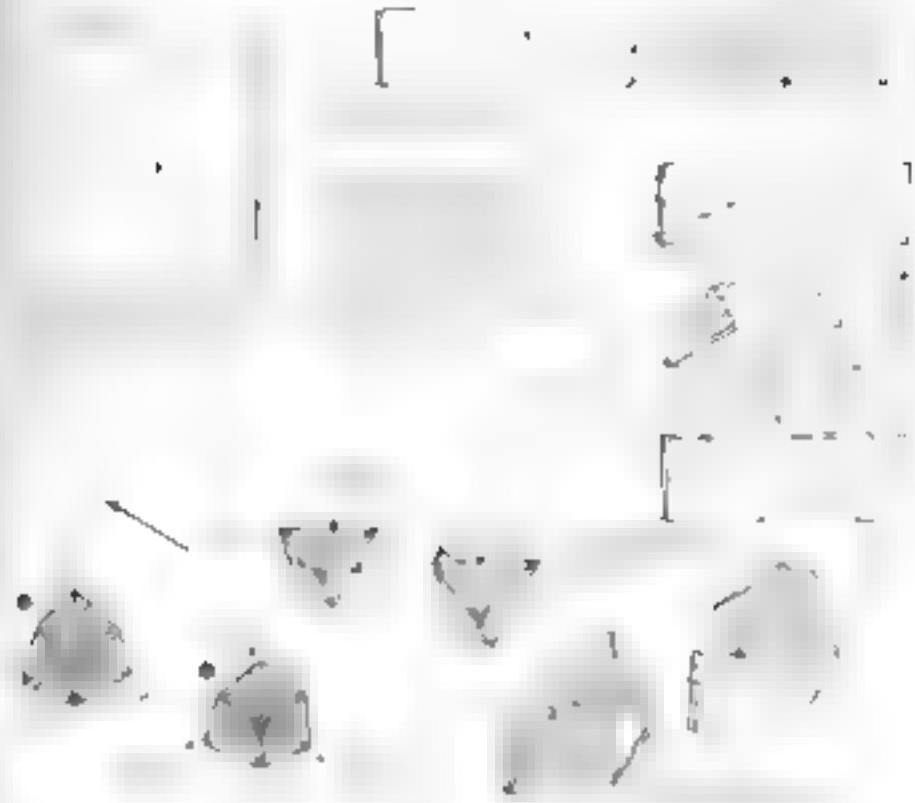
That is all I need to say about the 1990s. I will leave the discussion of the 1990s to the other speakers.



$\nabla_{\text{eff}} \psi = \psi \nabla Q + Q \nabla \psi$

Marie x est de
l'ordre de 2000

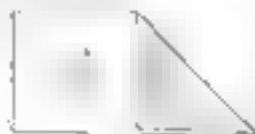




Spirals

With the spiral, the sandy
area is all that is needed.
Starting from a small square
the area increases by adding
triangular strips of the same
size. As the spiral is built, it
grows in length, so the area
increases rapidly. This is how
the area of the spiral is calculated.

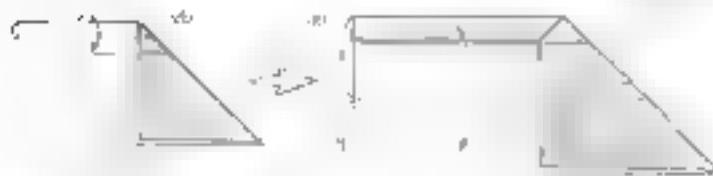
Another way of calculating the
area is to reduce it to a rectangle.
Suppose the spiral is built
in such a way that it has a
constant width. Then the area
of each turn of the spiral is



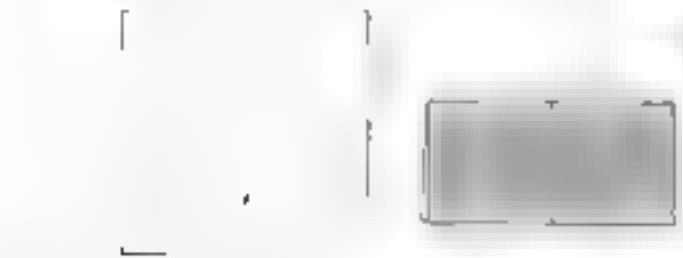
Product of the width times the
length of the spiral.

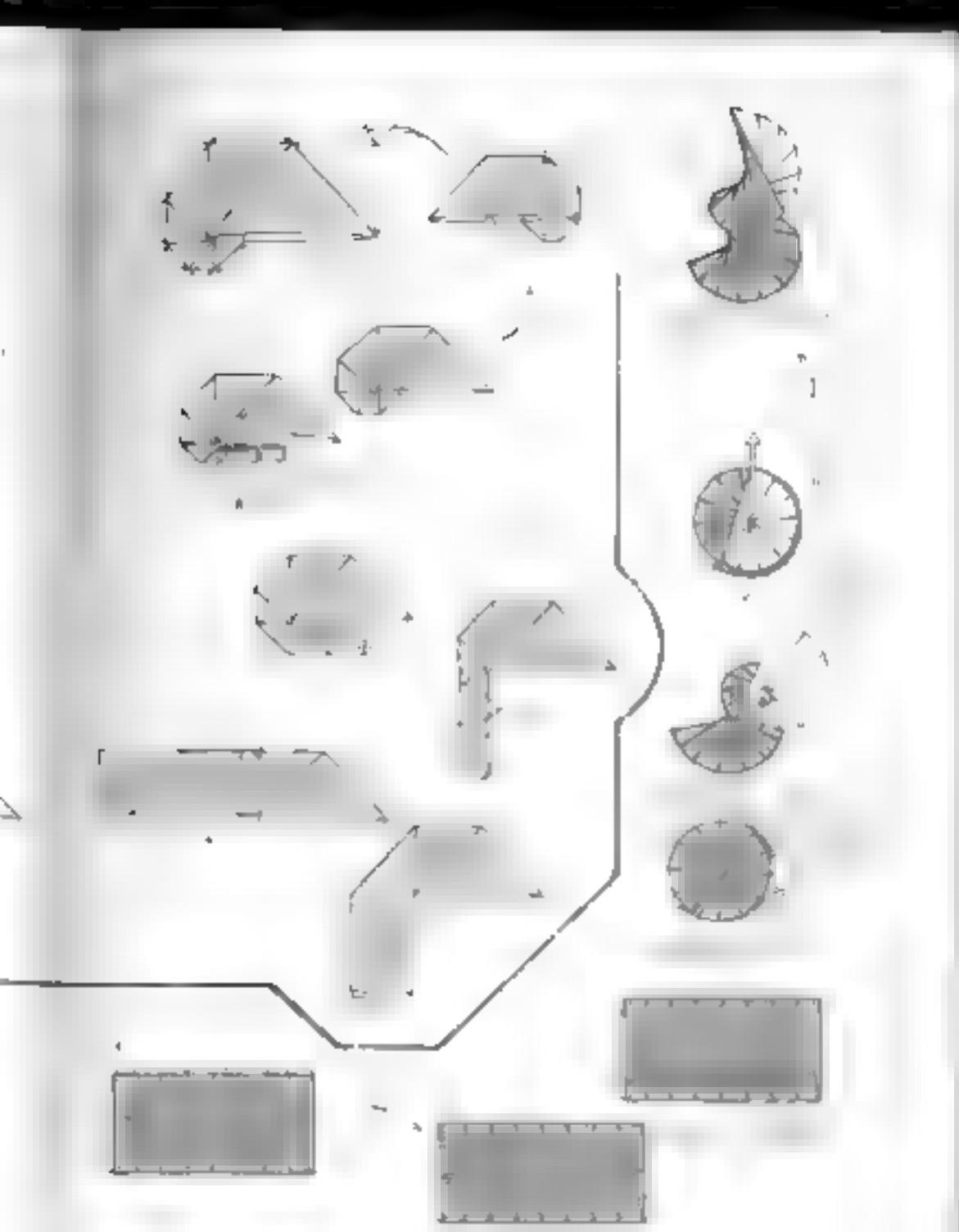


Univalve Shell



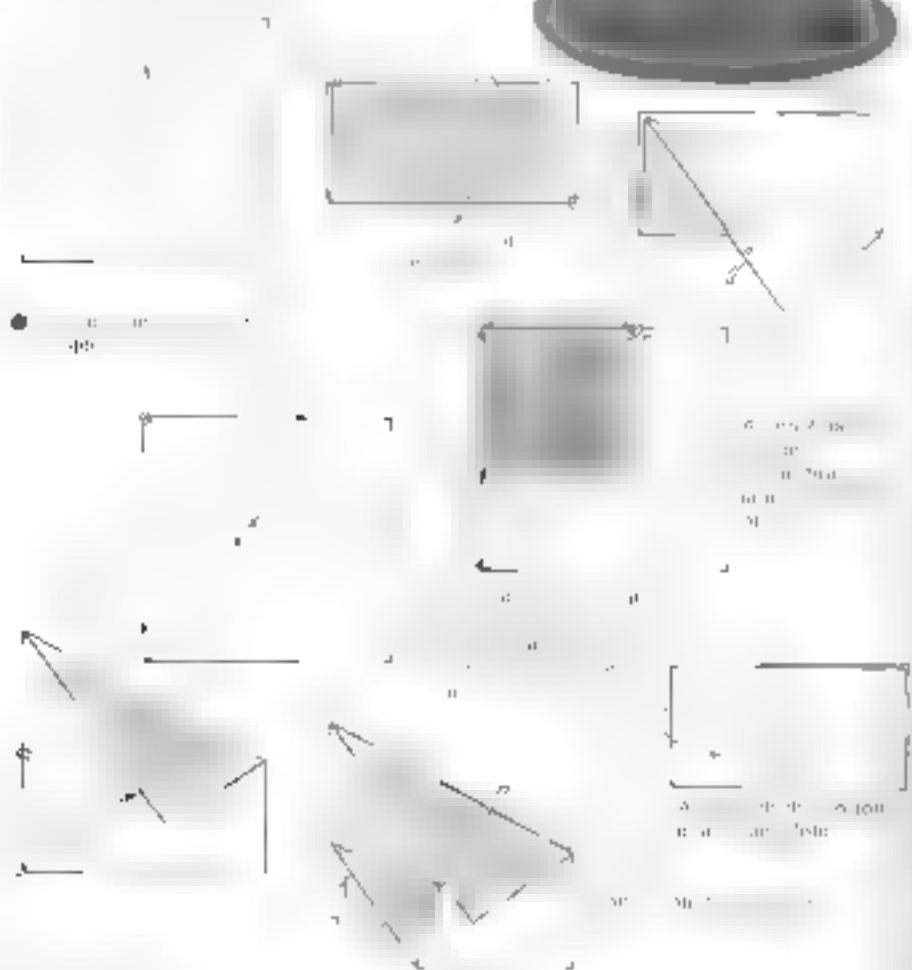
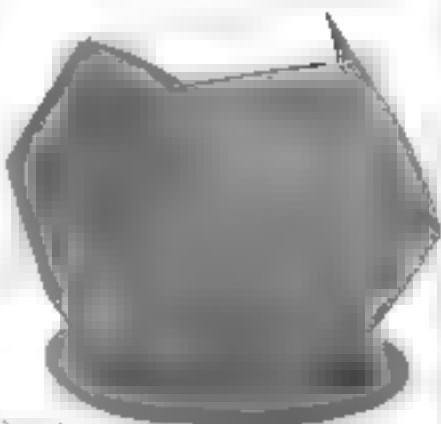
Object d'Art





Regular pentagonal Flat Unit

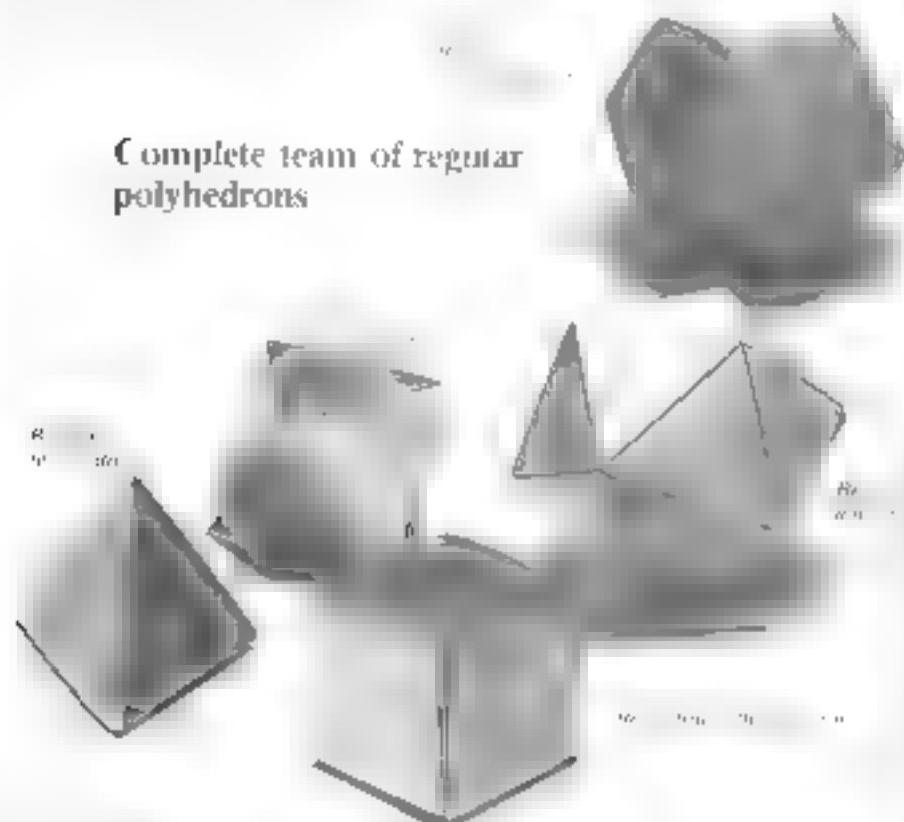
After 30 sides of the dodecahedron, the
regular pentagonal flat unit is 100% made
of 100% recycled paper. When folded
together, the four flat units make
one regular pentagonal flat unit. Because
of its unique shape, it is not possible to
make a regular dodecahedron from
just these units. However, it is
possible to make a regular dodecahedron
with some other units.



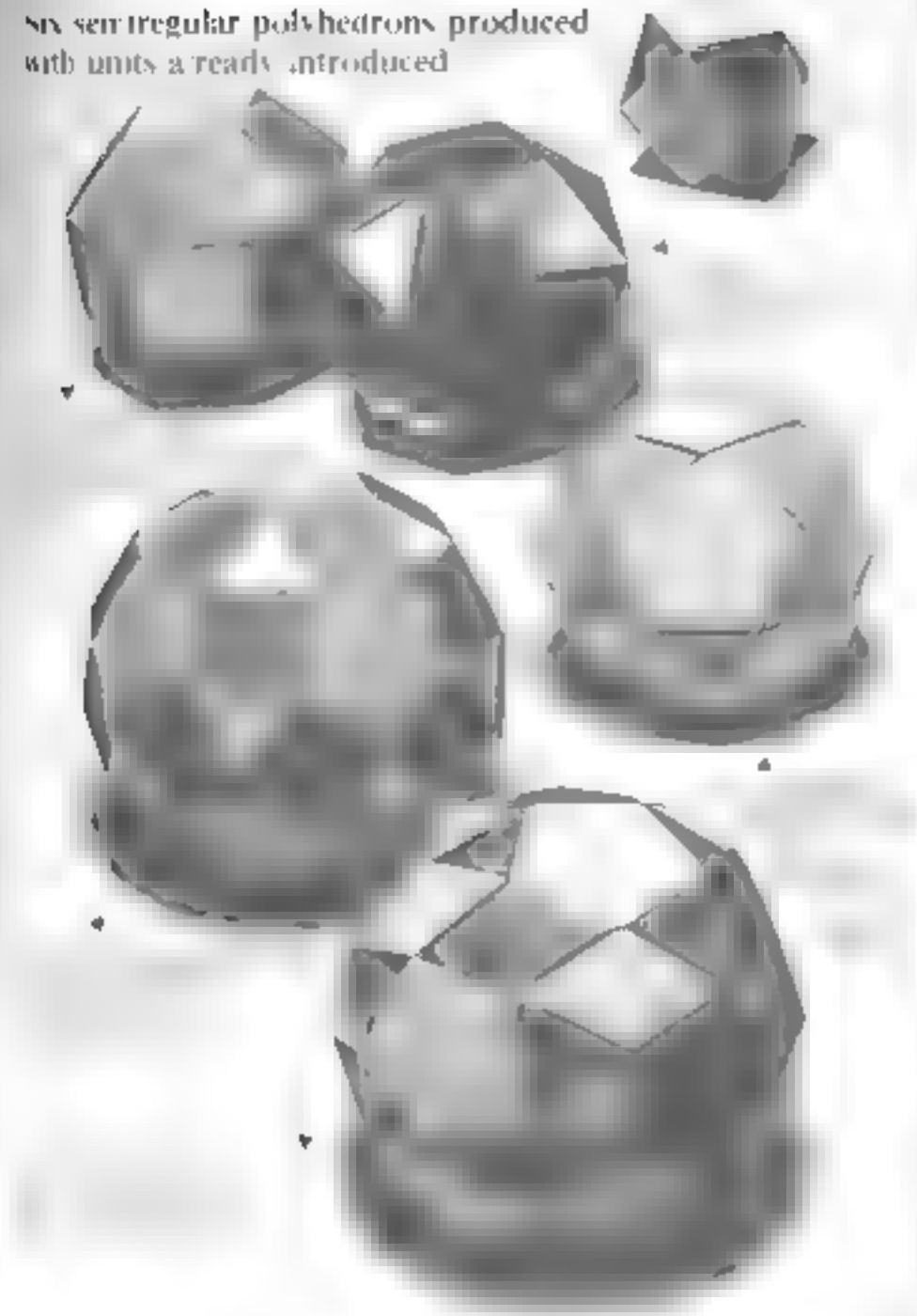
From Regular to Semiregular Polyhedrons

Now that we have made the transition from the Regular to the Semiregular Polyhedrons, let's take a look at the semiregular polyhedrons. There are four main ways to do this. One way is to start with the regular polyhedrons and then add faces to them. This is what we did with the cube and octahedron. Another way is to start with a regular polyhedron and then remove faces from it. This is what we did with the dodecahedron and icosahedron. A third way is to start with a regular polyhedron and then add faces to it. This is what we did with the truncated cube and truncated octahedron. A fourth way is to start with a regular polyhedron and then remove faces from it. This is what we did with the truncated tetrahedron and truncated icosahedron.

Complete team of regular polyhedrons

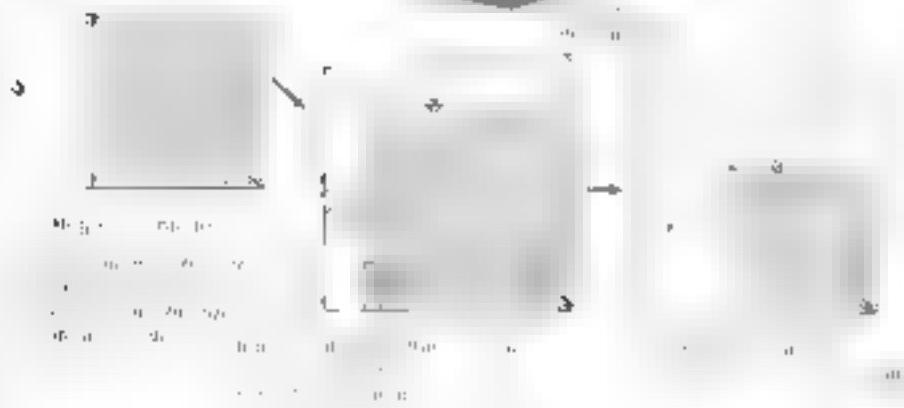
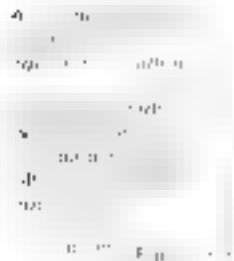


Six semi-regular polyhedrons produced
with units already introduced



Lengths of Sides

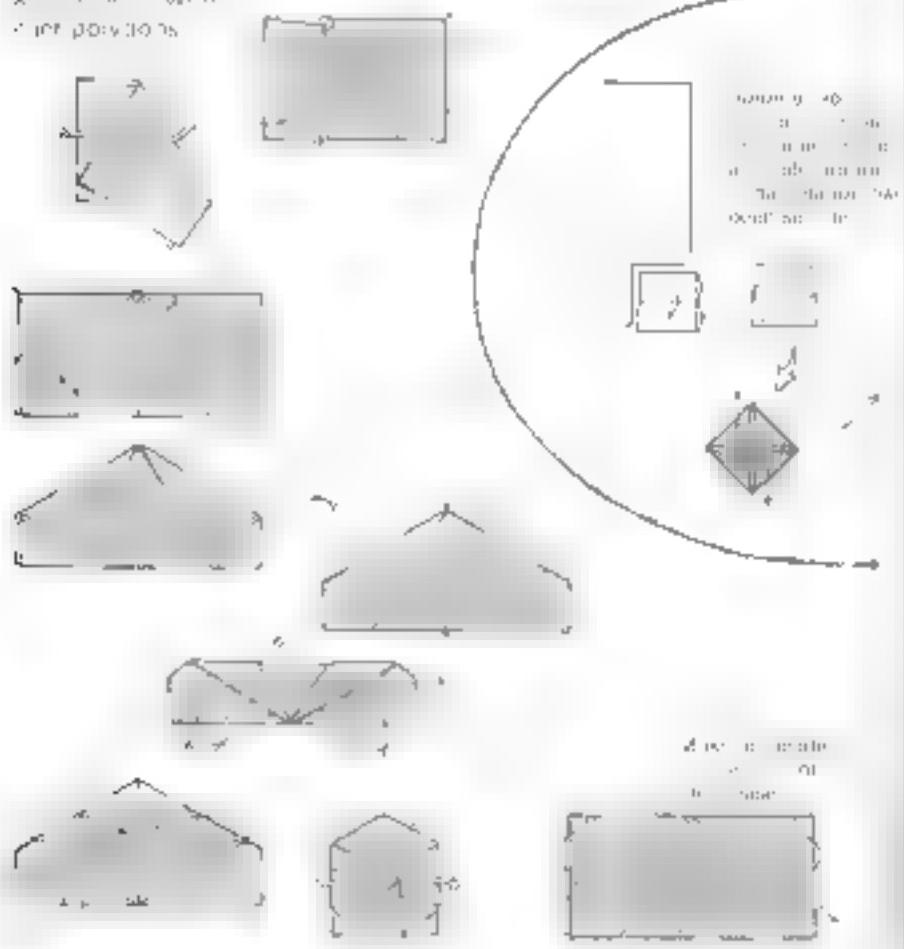
With the introduction of the new system, the following changes were made:





Regular-hexagonal Flat Unit

Now let the problem of a
unit having equal sides may
beir dealt with we can turn
to a remaining shape only
given that it is first necessary
to Regular hexagonal unit
The Regular hexagonal and
Regular decagonal units
are to be used by their respective
units as the regular hexagonal
unit is to be used
in the following
unit positions:

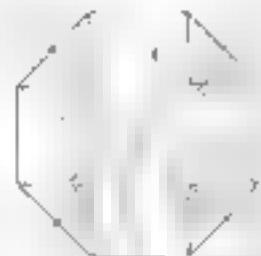
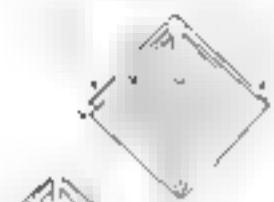
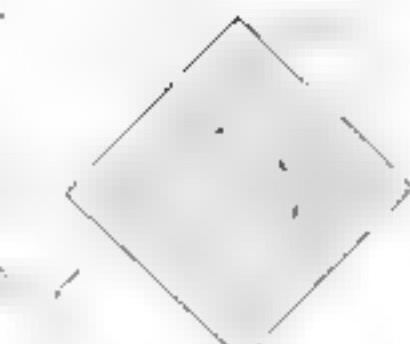


Three more semiregular polyhedra
became possible



Decagonal Flat Unit

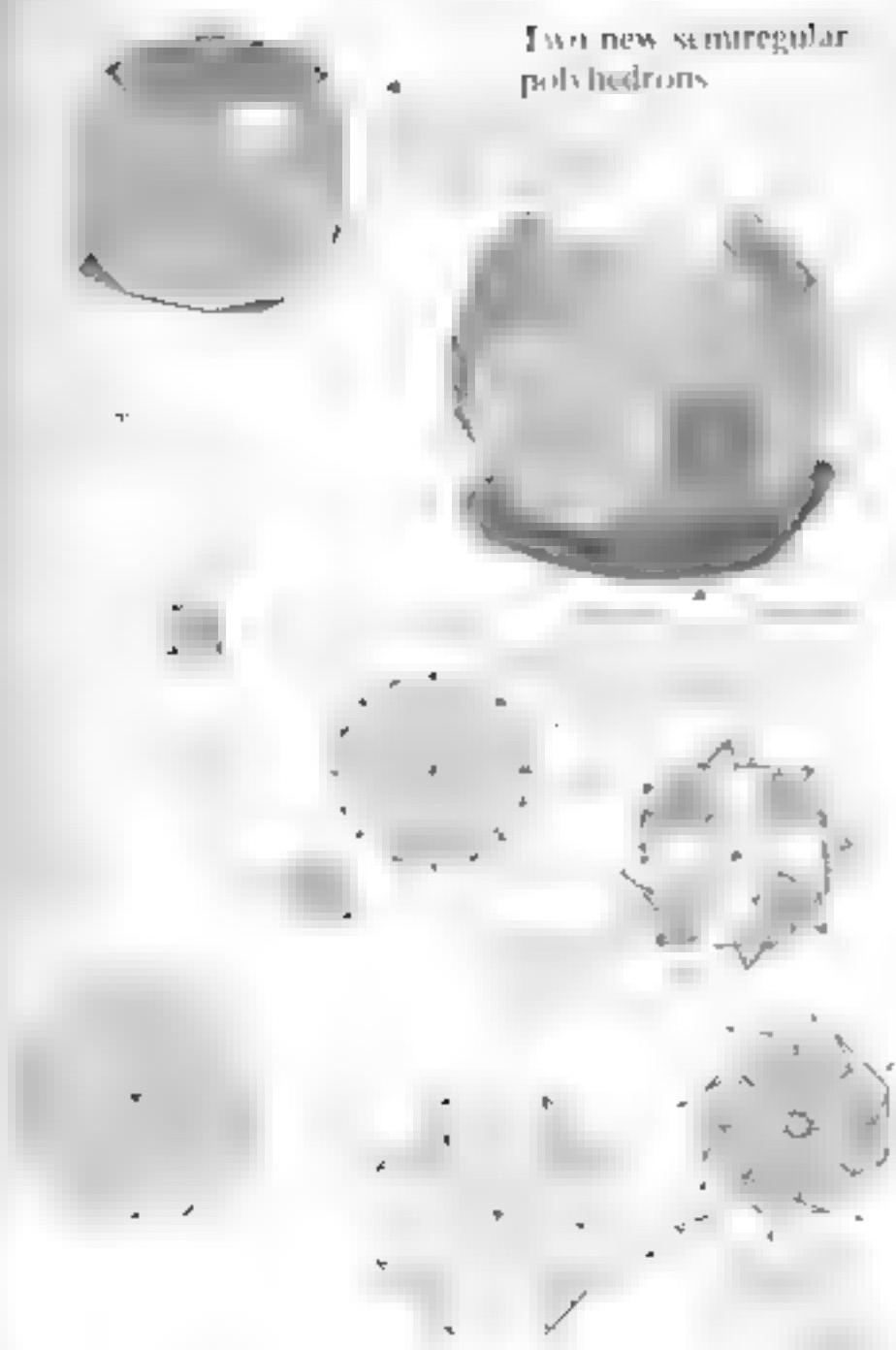
T	10	10	0	0	0
10	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0



0 0 0
0 0 0
0 0 0
0 0 0
0 0 0
0 0 0
0 0 0
0 0 0
0 0 0
0 0 0

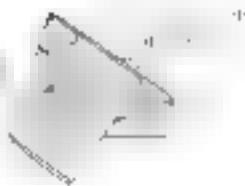
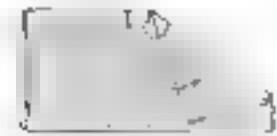
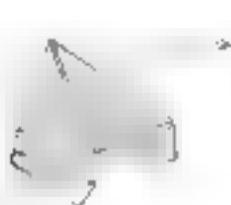
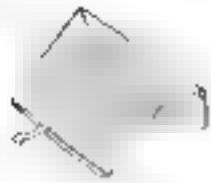
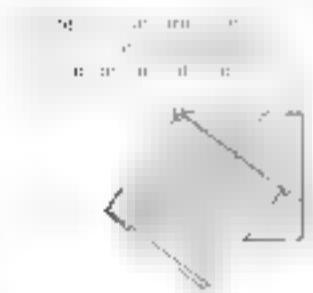
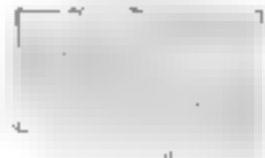
0 0 0 0 0 0 0 0 0 0

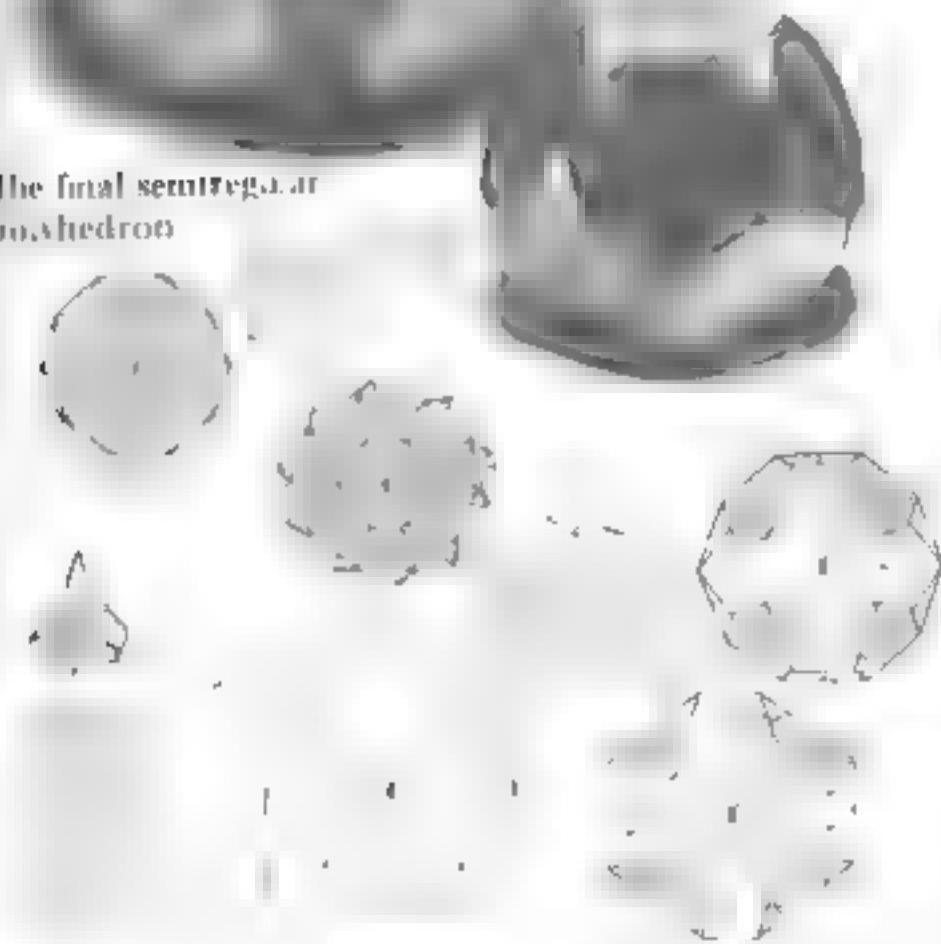
Two new semiregular
polyhedrons



Regular-octagonal Flat Unit

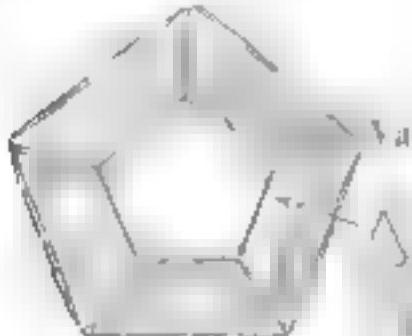
The total angle of the unit is 360°. It consists of four 90° angles and four 45° angles. The total angle of the octagon is 1080°. This means that each angle must be 135°. If we add up all the interior angles of the octagon, we get 1080°. People who have studied geometry know that the exterior angle of an octagon is 45°. This is shown on p. 218.



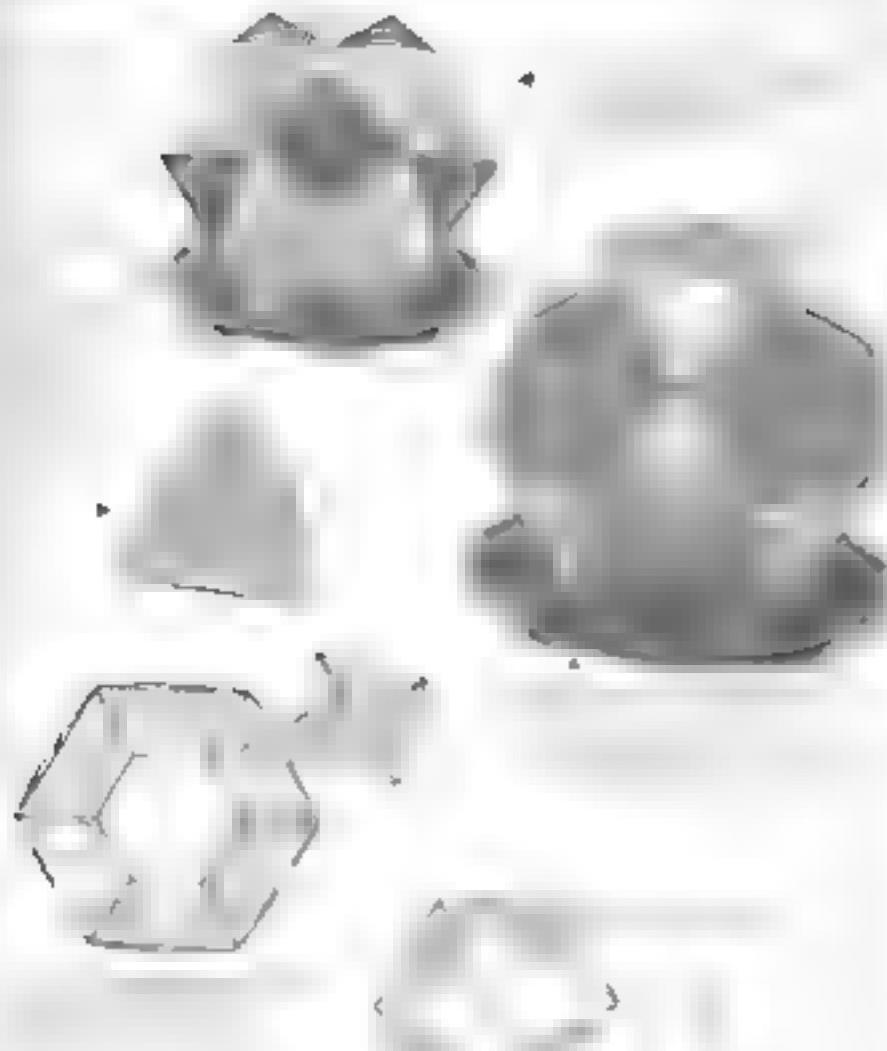


The final semi-regular
polyhedron

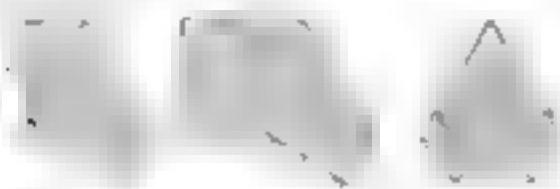
At the Threshold



Variant version of the Regular pentagonal Flat Unit

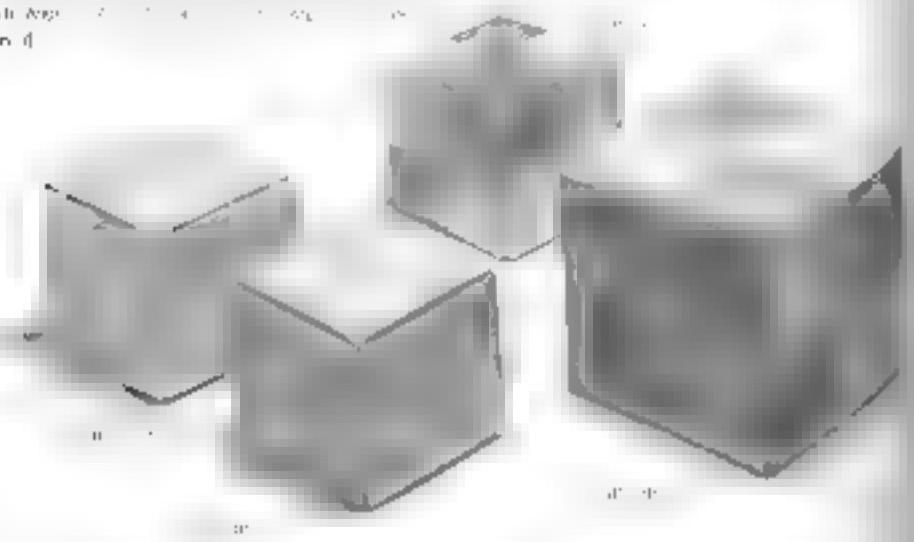


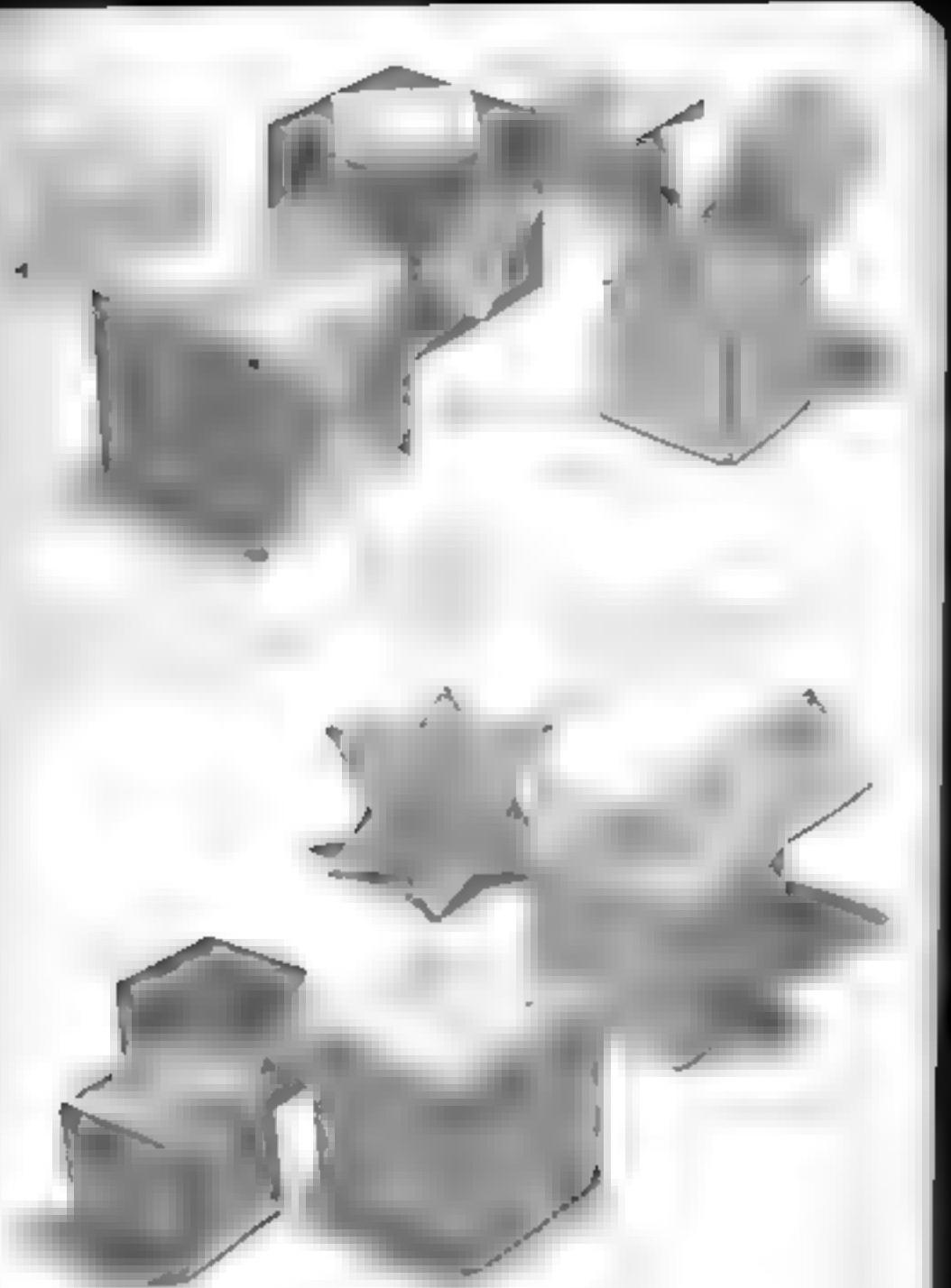
Variant Regular Hexagonal
Unit (regular hexagon)



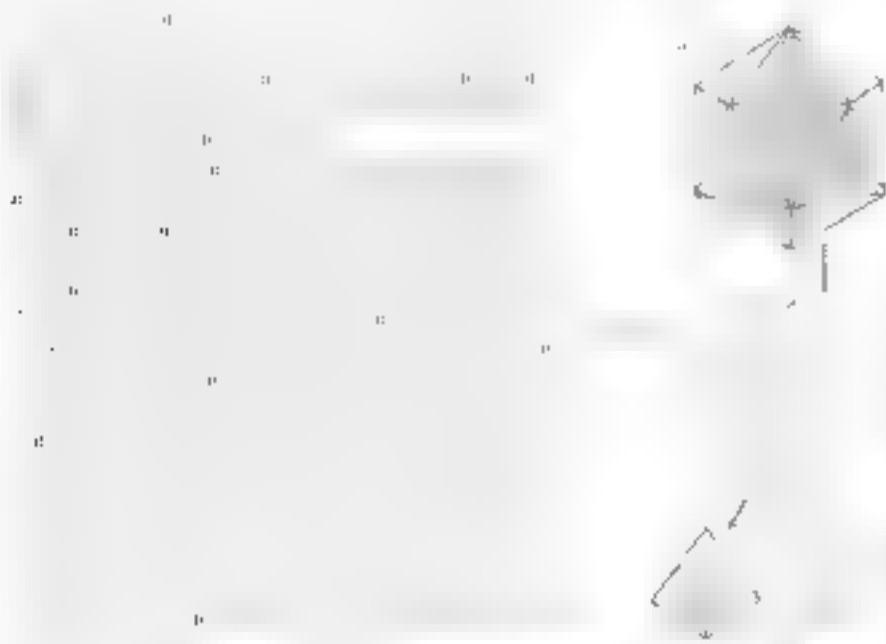
The Inexhaustible Fascination of Polyhedrons

4. Which is the best? It depends on what you want.
5. The regular polyhedra are the most beautiful.
6. Some of them are useful; others are not.
7. They are all made of straight lines.
8. Most of them are very ugly.
9. One can make many more than the five.
10. They are all made of triangles.
11. They are not made of squares.
12. Some are made of rectangles.
13. Some are made of circles.
14. Some are made of ellipses.
15. Some are made of hexagons.
16. Some are made of octagons.
17. Some are made of nonagons.
18. Some are made of pentagons.
19. Some are made of heptagons.
20. Some are made of enneagons.
21. Some are made of dodecagons.
22. Some are made of二十四边形.
23. Some are made of twenty-four sides.
24. Some are made of thirty sides.
25. Some are made of forty sides.
26. Some are made of sixty sides.
27. Some are made of eighty sides.
28. Some are made of one hundred sides.
29. Some are made of two hundred sides.
30. Some are made of four hundred sides.
31. Some are made of six hundred sides.
32. Some are made of eight hundred sides.
33. Some are made of ten thousand sides.
34. Some are made of twelve thousand sides.
35. Some are made of fifteen thousand sides.
36. Some are made of twenty thousand sides.
37. Some are made of thirty thousand sides.
38. Some are made of forty thousand sides.
39. Some are made of fifty thousand sides.
40. Some are made of sixty thousand sides.
41. Some are made of seventy thousand sides.
42. Some are made of eighty thousand sides.
43. Some are made of ninety thousand sides.
44. Some are made of one hundred thousand sides.
45. Some are made of two hundred thousand sides.
46. Some are made of three hundred thousand sides.
47. Some are made of four hundred thousand sides.
48. Some are made of five hundred thousand sides.
49. Some are made of six hundred thousand sides.
50. Some are made of seven hundred thousand sides.
51. Some are made of eight hundred thousand sides.
52. Some are made of nine hundred thousand sides.
53. Some are made of one million sides.

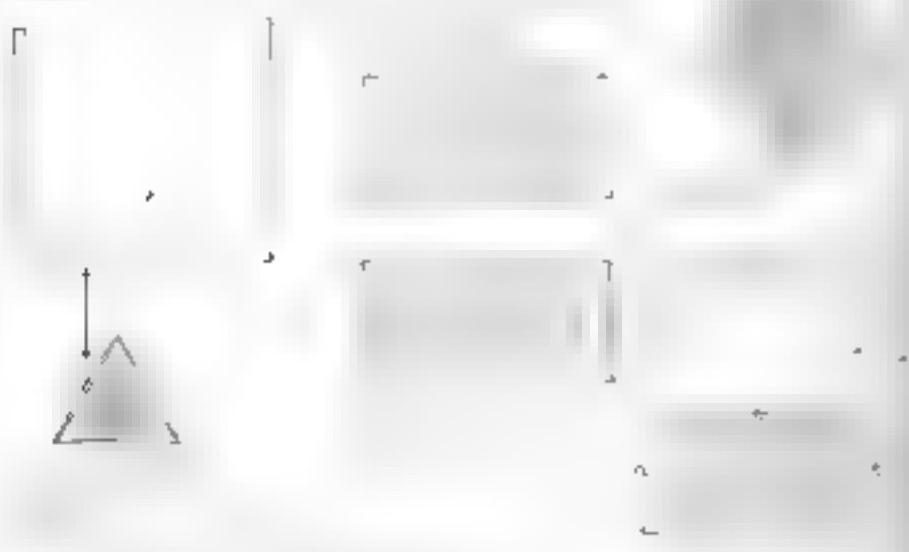




The Reversible Stellate Icosahedron

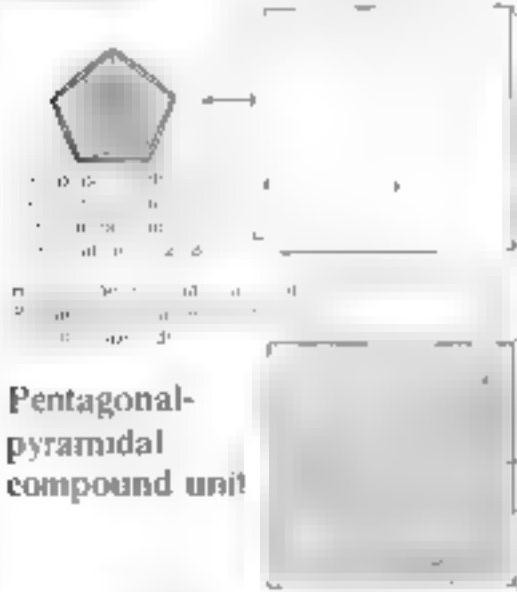
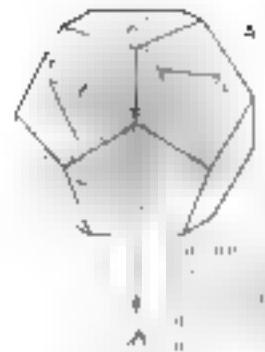


Irrgonal pyramid for the regular icosahedron

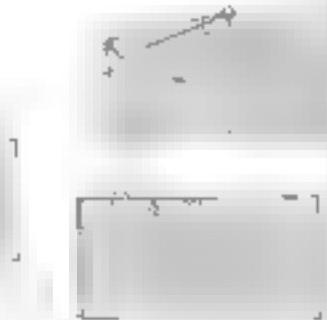
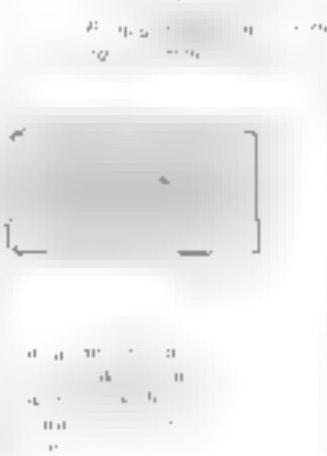
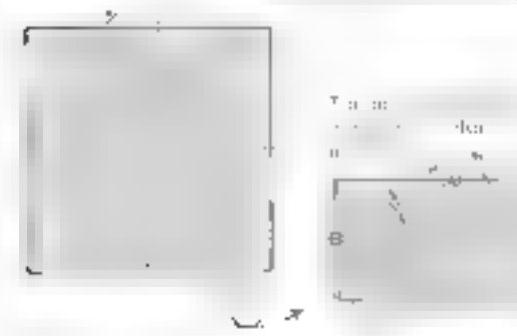


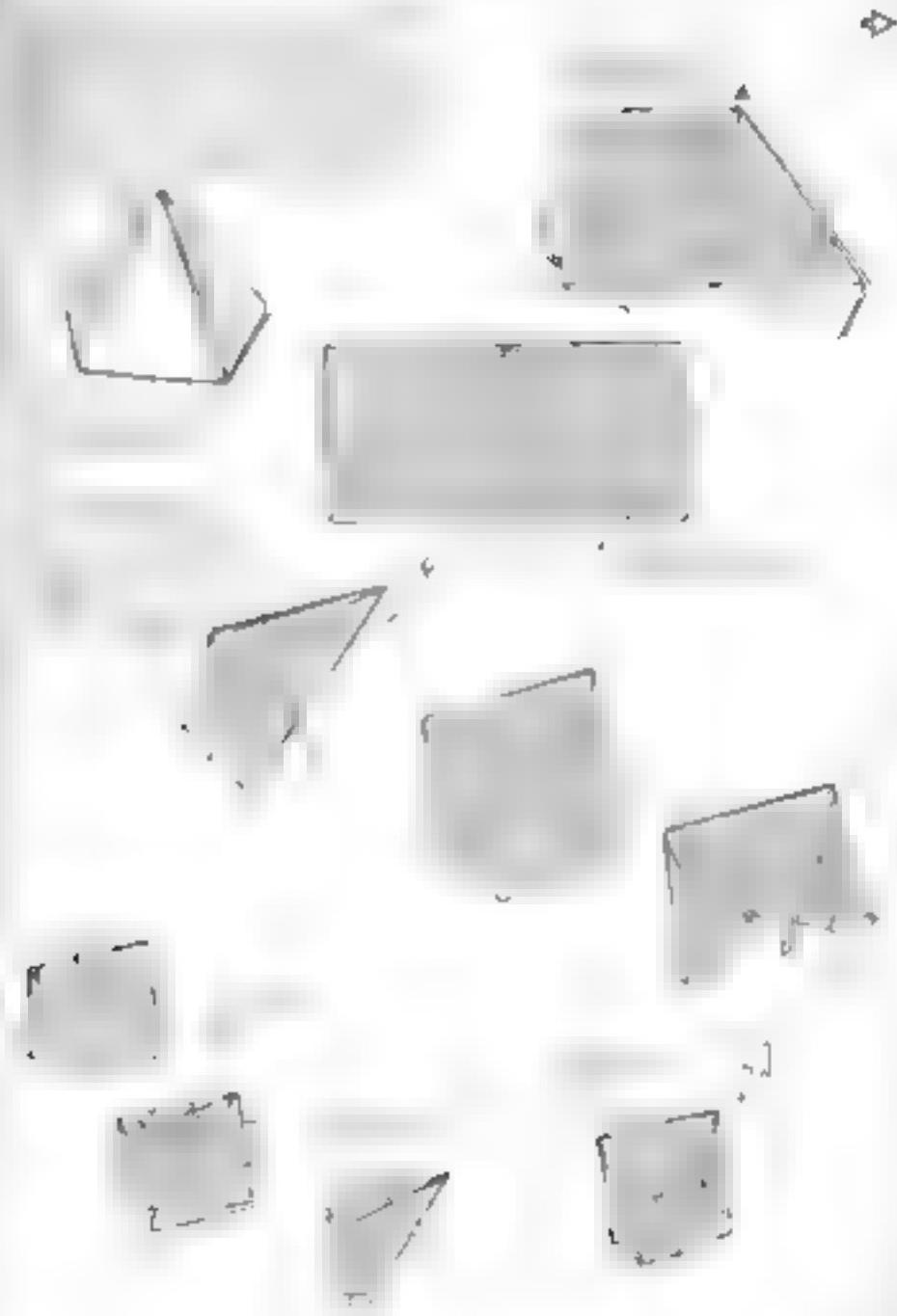
The Reversible Stellate Regular Dodecahedron

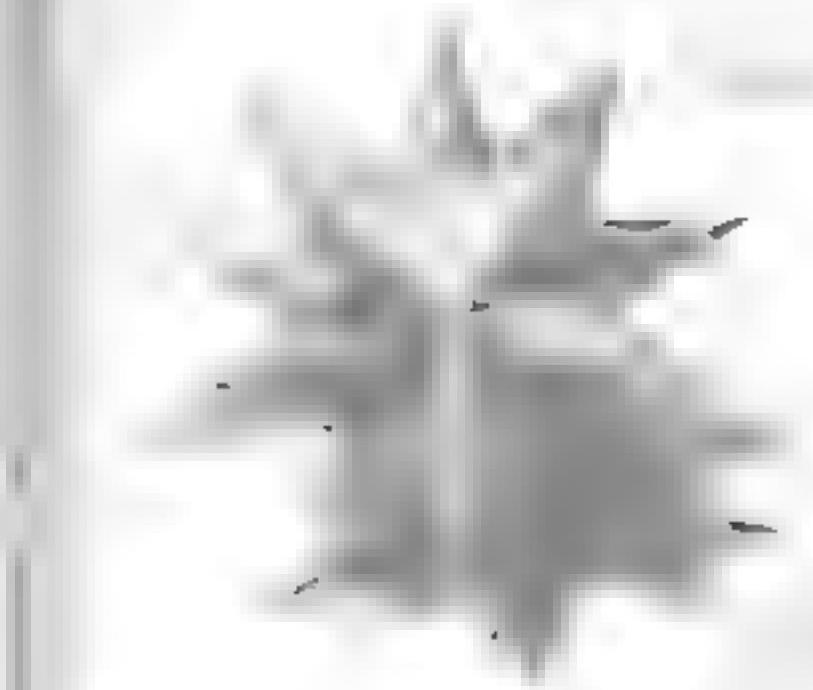
This entry was added by a user and is not yet reviewed.
The content is not checked by the moderator before it
is displayed. It is advised that you do not use this
content as a reference without further verification.
Please see our [FAQ](#) for details.



Pentagonal-pyramidal compound unit



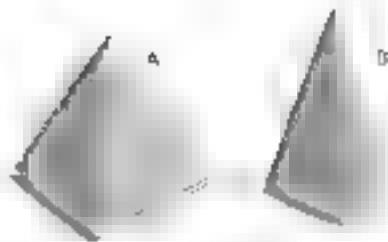




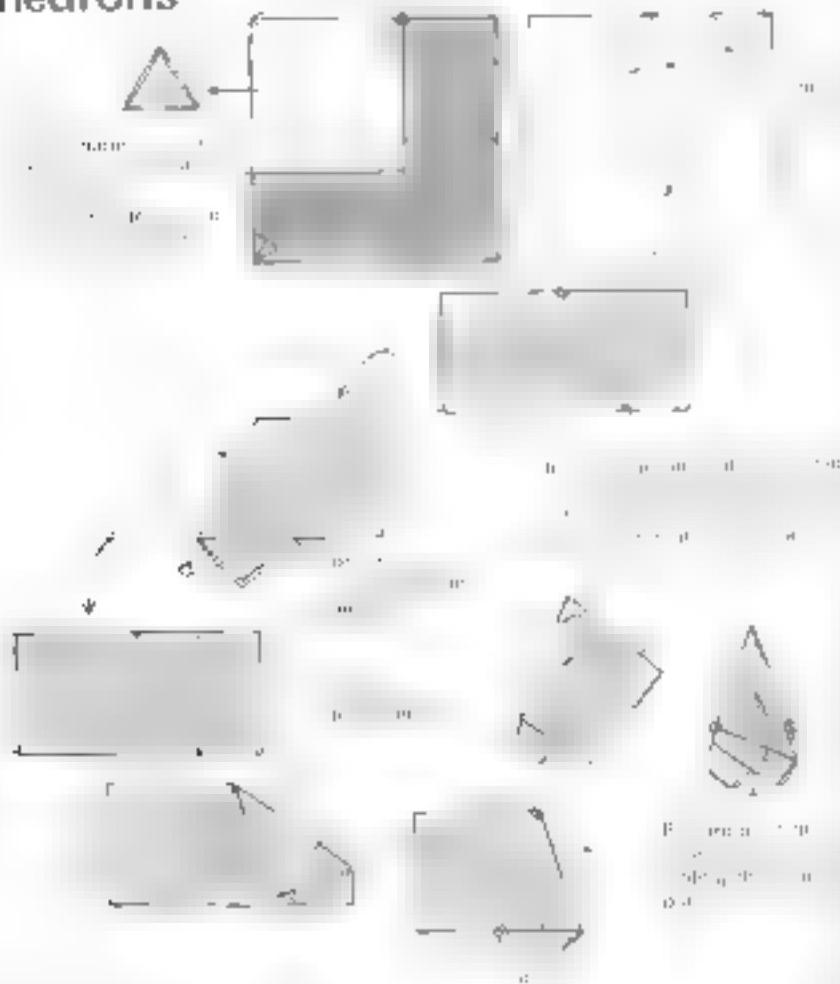
Two stellated dodecahedrons

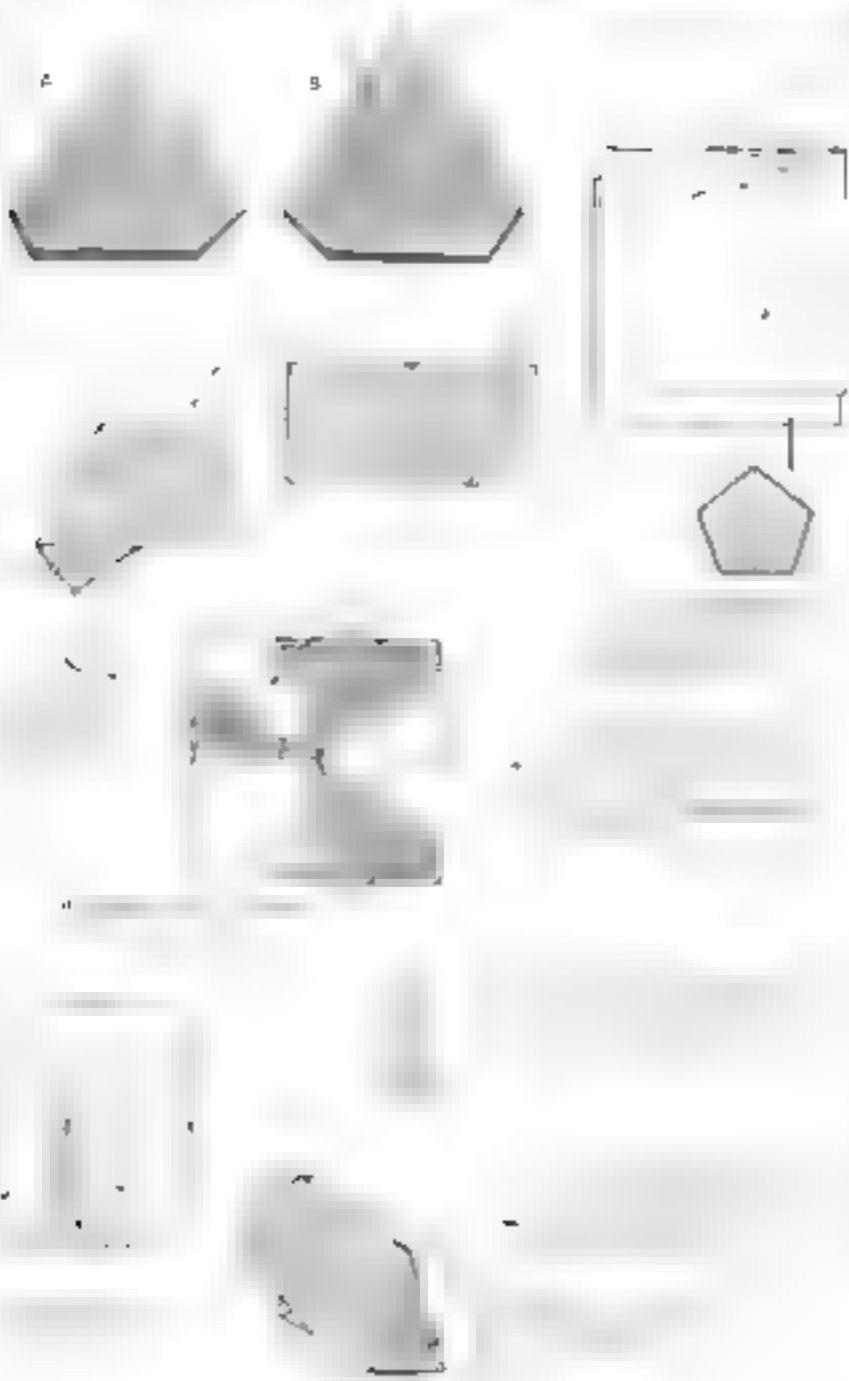


A = B = 30° C = D = E = F = G = H = I = J = K = L = M = N = 90°
 When $\alpha = \beta = \gamma = 0$, the dodecahedron is regular.
 If $\alpha = \beta = \gamma > 0$, it is impossible
 to make a convex polyhedron.
 If $\alpha = \beta = \gamma < 0$, it is also impossible.
 If $\alpha = \beta = \gamma = 0$, the dodecahedron is regular.
 If $\alpha = \beta = \gamma \neq 0$, the dodecahedron is concave.
 If $\alpha = \beta = \gamma = 180^\circ$, the dodecahedron is flat.



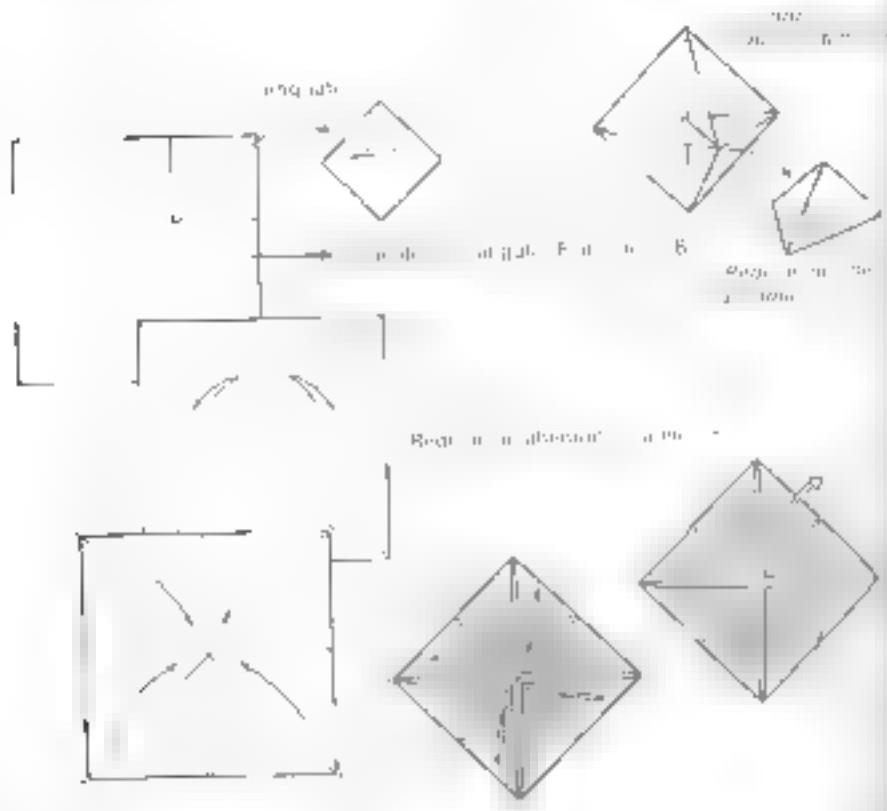
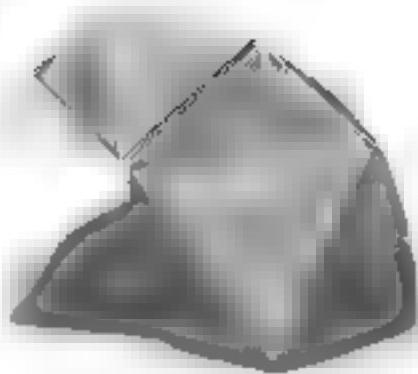
Greater and Lesser Stellate Dodecahedrons

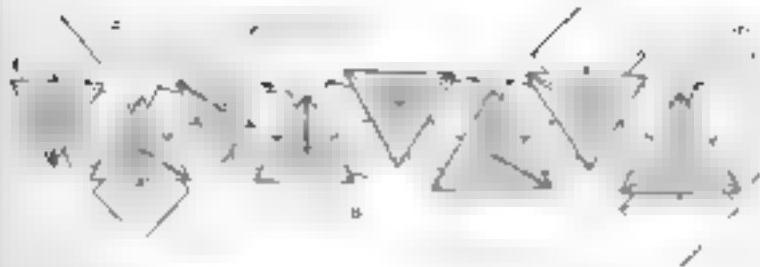




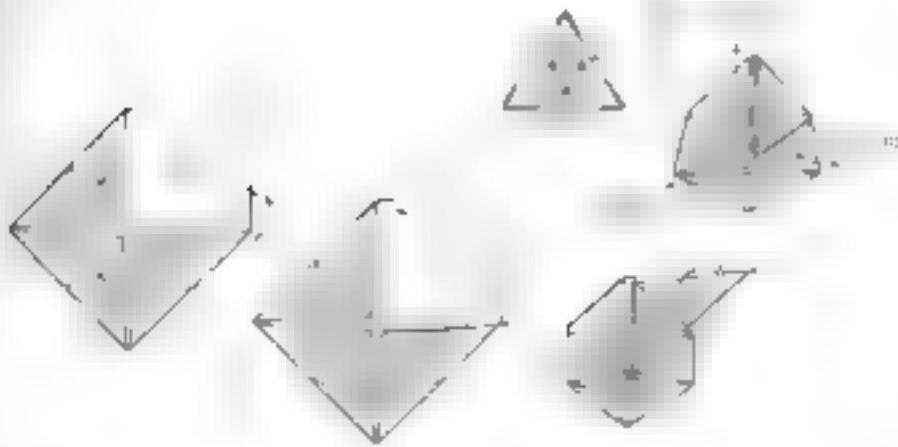
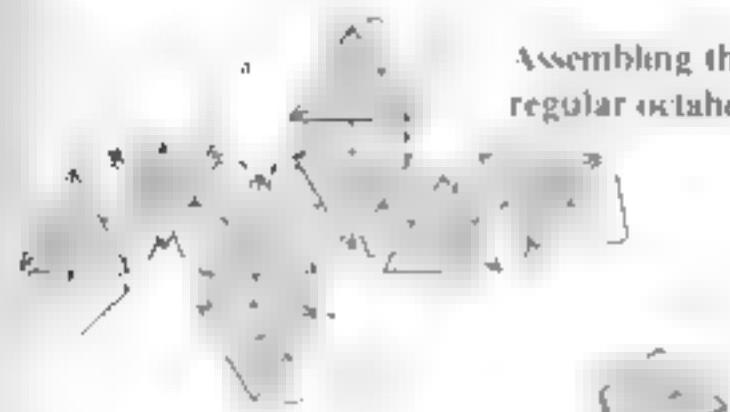
Stellate Regular Octahedron

By now we have produced all four of the first four polyhedra, plus correctly, the two versions of two with the largest number of faces. Now we shall come to the remaining three by beginning with the easiest—the regular octahedron with which the author in 1960 already have made (or very similar)

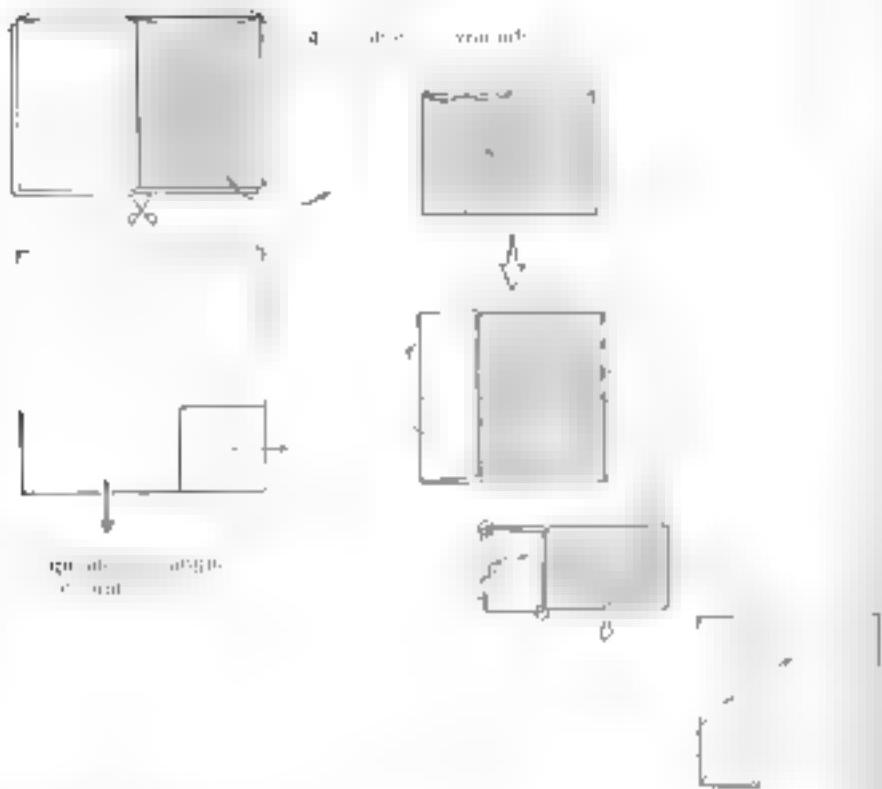
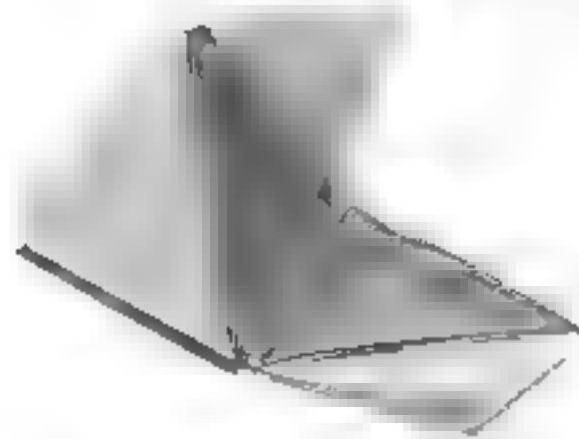




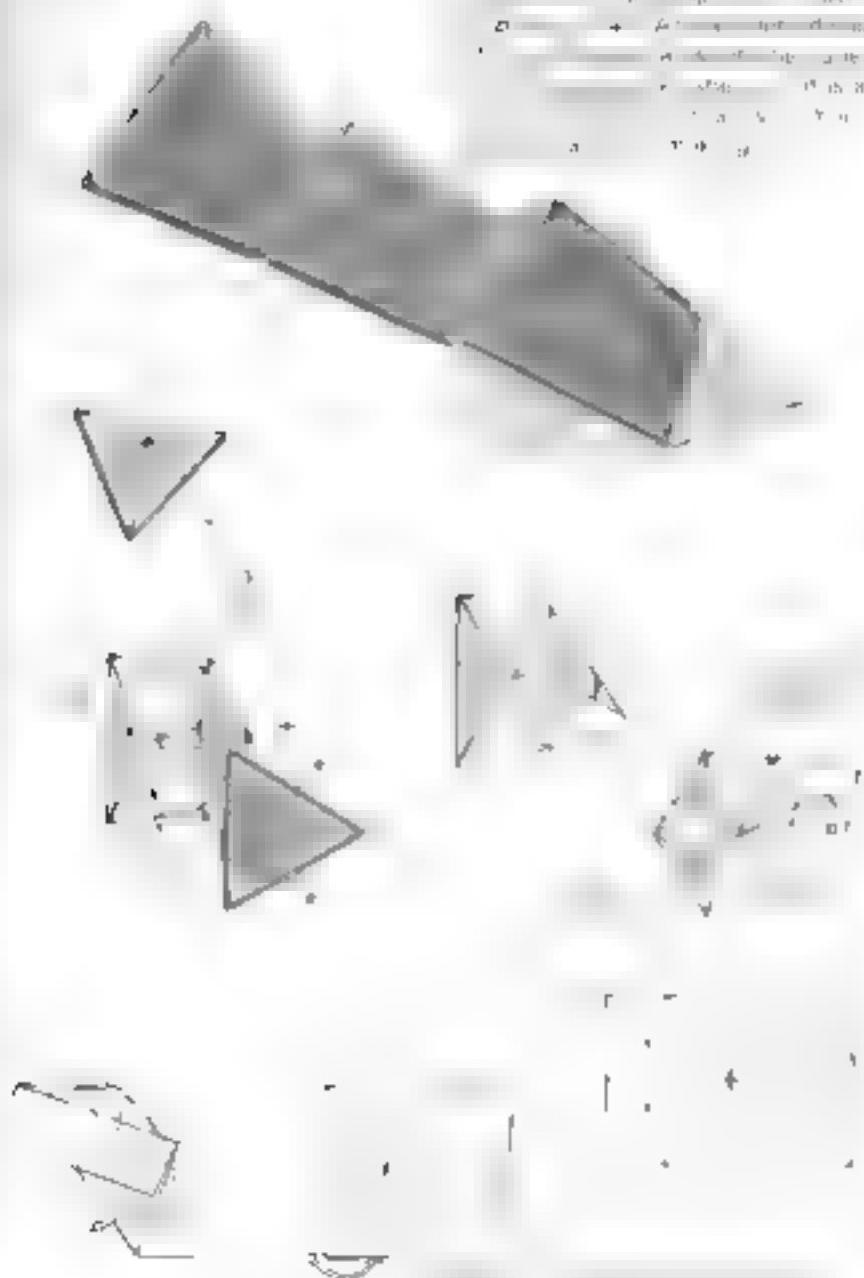
Assembling the
regular octahedron



Stellate Tetrahedron

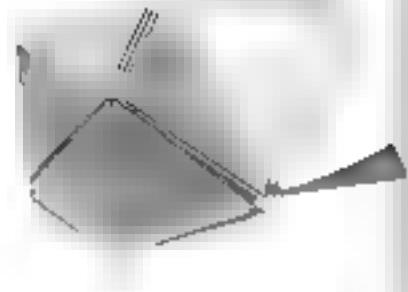


Toy puzzle

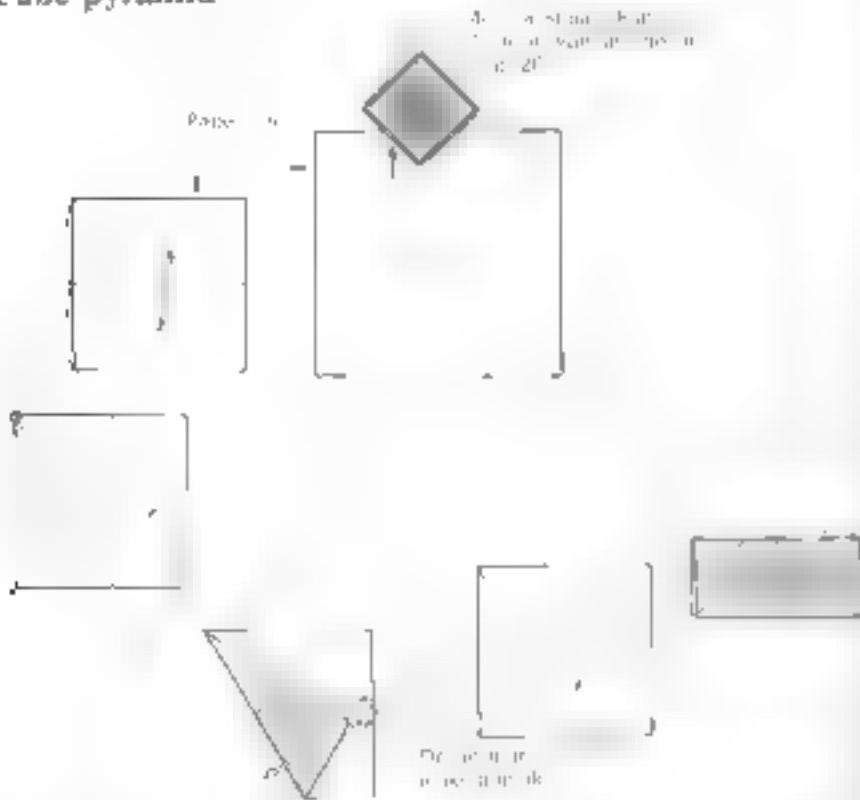


Stellate Square

The plotting angle on the right is half its original 24° immediately before assembly into a cube. The plotting angle of the stellate square appears to be 24°. Actually, as was the case with the regular form, there is very little lateral about its appearance. Its value in version however is the beam in shown rigid dual rotation.



Cube pyramid





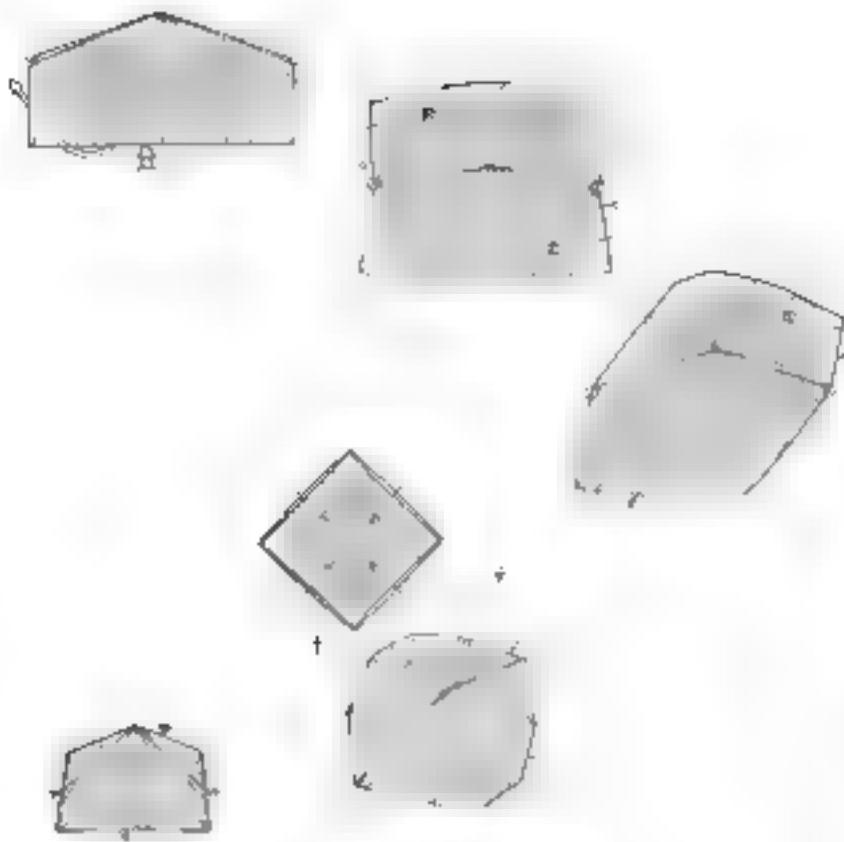
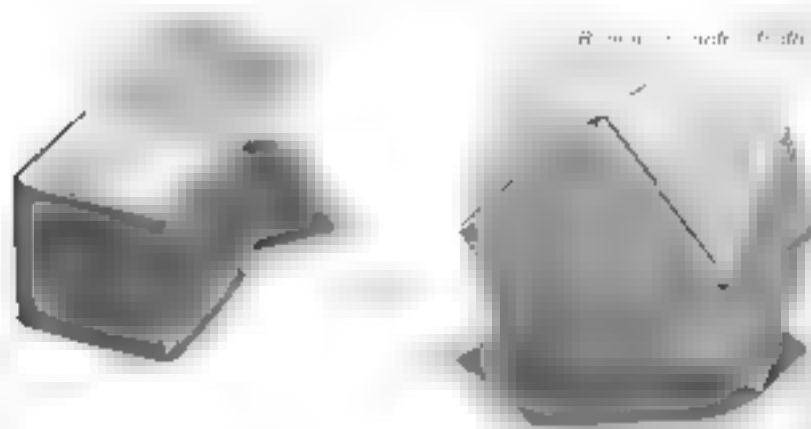
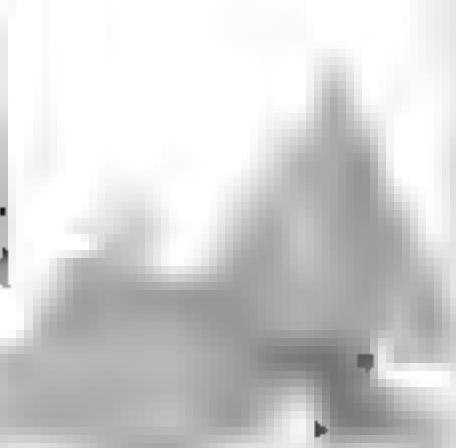


Рисунок 1. Устройство



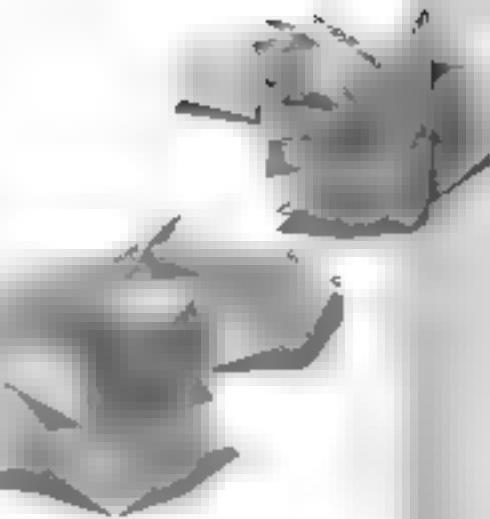
Chapter 6

Viva Origami!



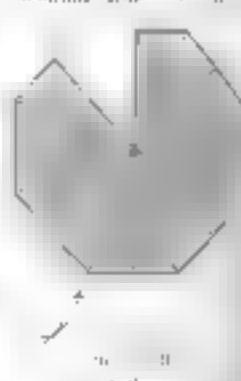
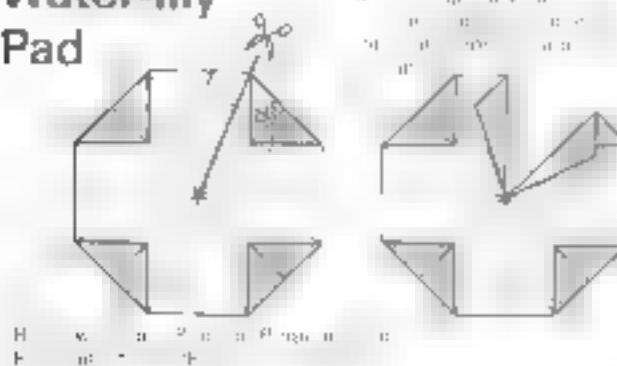
Doubling the Pleasure

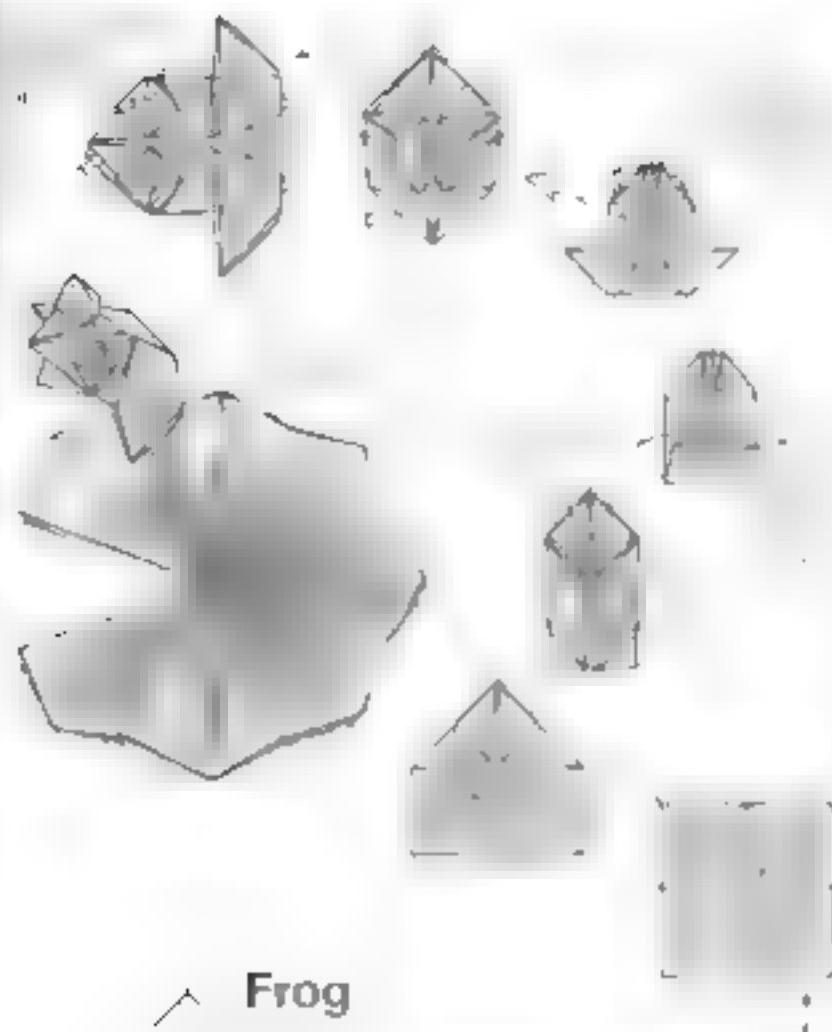
occurred a shank of time ago now — a decade or so — when I was in the service. I was in the public relations group and my job was to do a radio program for the 200,000 American Service men and women who had been evacuated from Britain to America. Unlike the other two categories, this is a little easier, perhaps because it is more comfortable. As far as they are concerned, we are in the same boat. They are not worried about the condition of their animals do not take advantage of the opportunity to catch up with their food supply. Some believe that this is just what they want to do, others feel that it is a result of the lack of direction. I do not believe that White Bear is this. I believe he is a very good animal. He is skillfully managed and does his best to enjoy his environment. This is an enjoyable aspect of the job. I think he wants to be right by his handlers and part of my work is this and helping to present a good animal to the public. It is important to do my best to do my best to do my best.



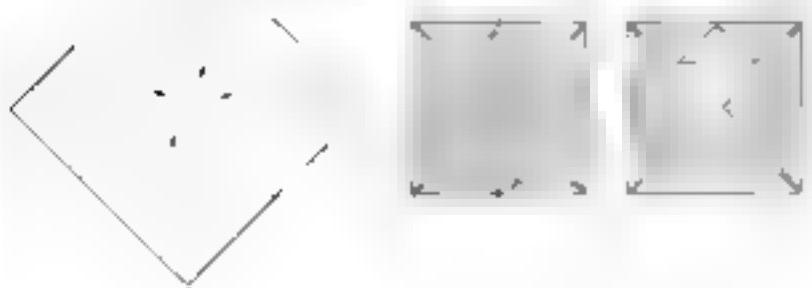
water-lily pad

Water-lily Pad



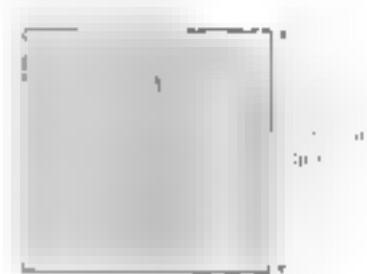
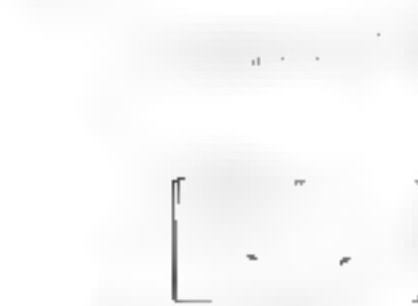


Frog

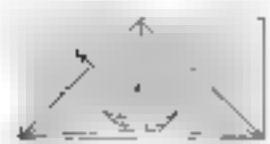
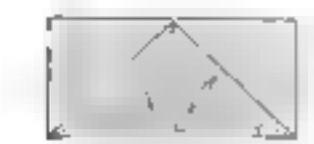


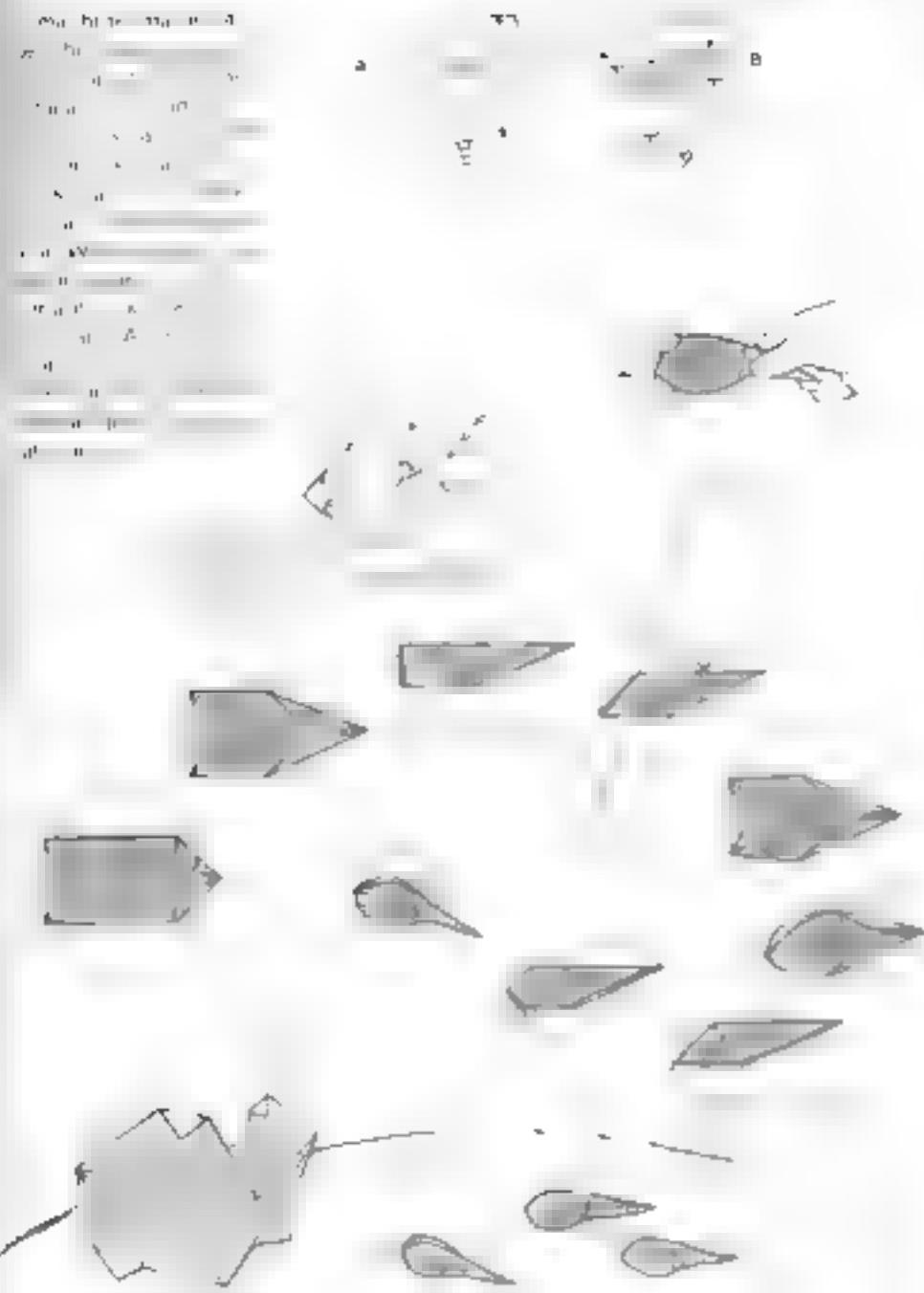
The Ambitious Frog

As you will see, as you do
the task, the frog's progress
will be like the diagram below.
First, it will jump from the
bottom of the first step up to
the middle of the second
step. Then it will jump from
the middle of the second
step up to the top of the third
step. This is why it is
so difficult.



Tadpole

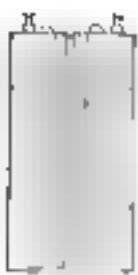




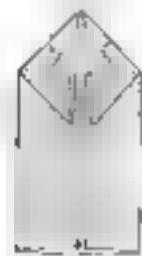


My Favorite Fox

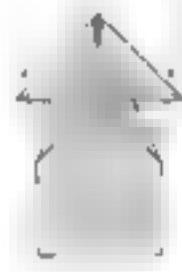
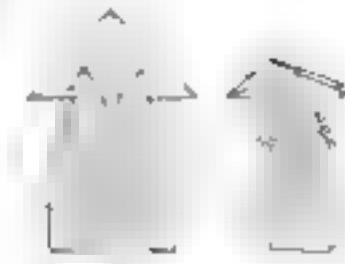
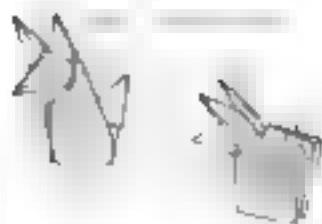
This old has already appeared in a phonetic chart in Chapter 4, p. 149. As far as the tapes I have from the tape of the dictation of the document he should not stress any feature of the word in which there is no very prominent



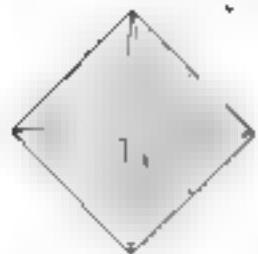
317



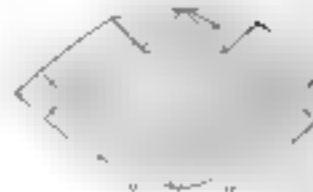
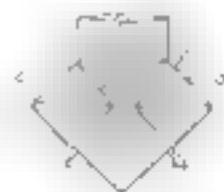
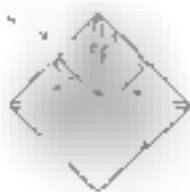
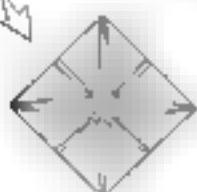
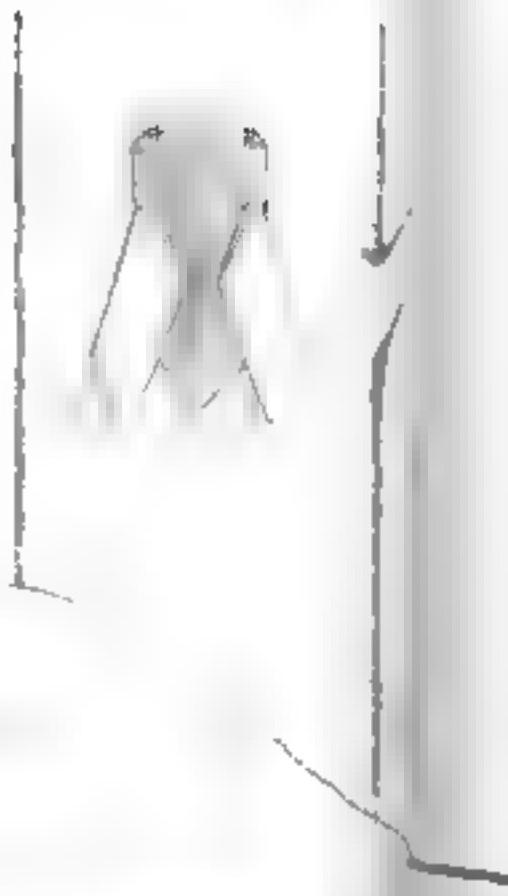
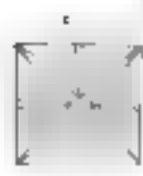
100 200 300
100 200 300



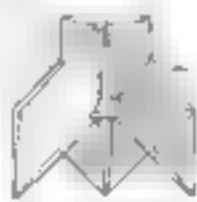
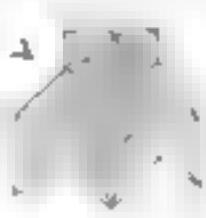
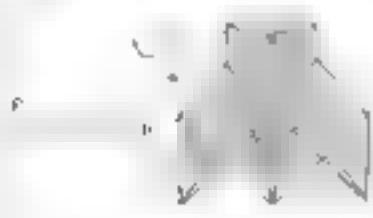
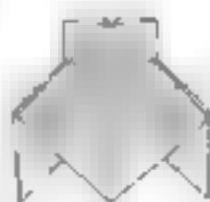
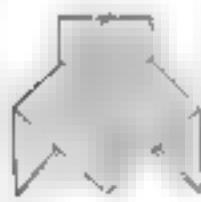
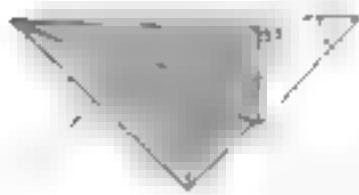
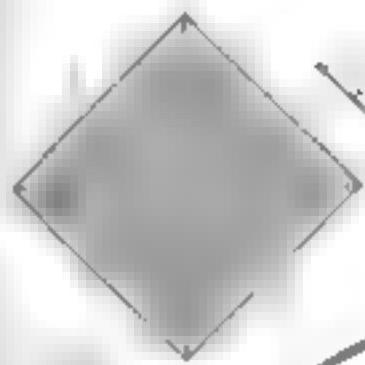
Cicada

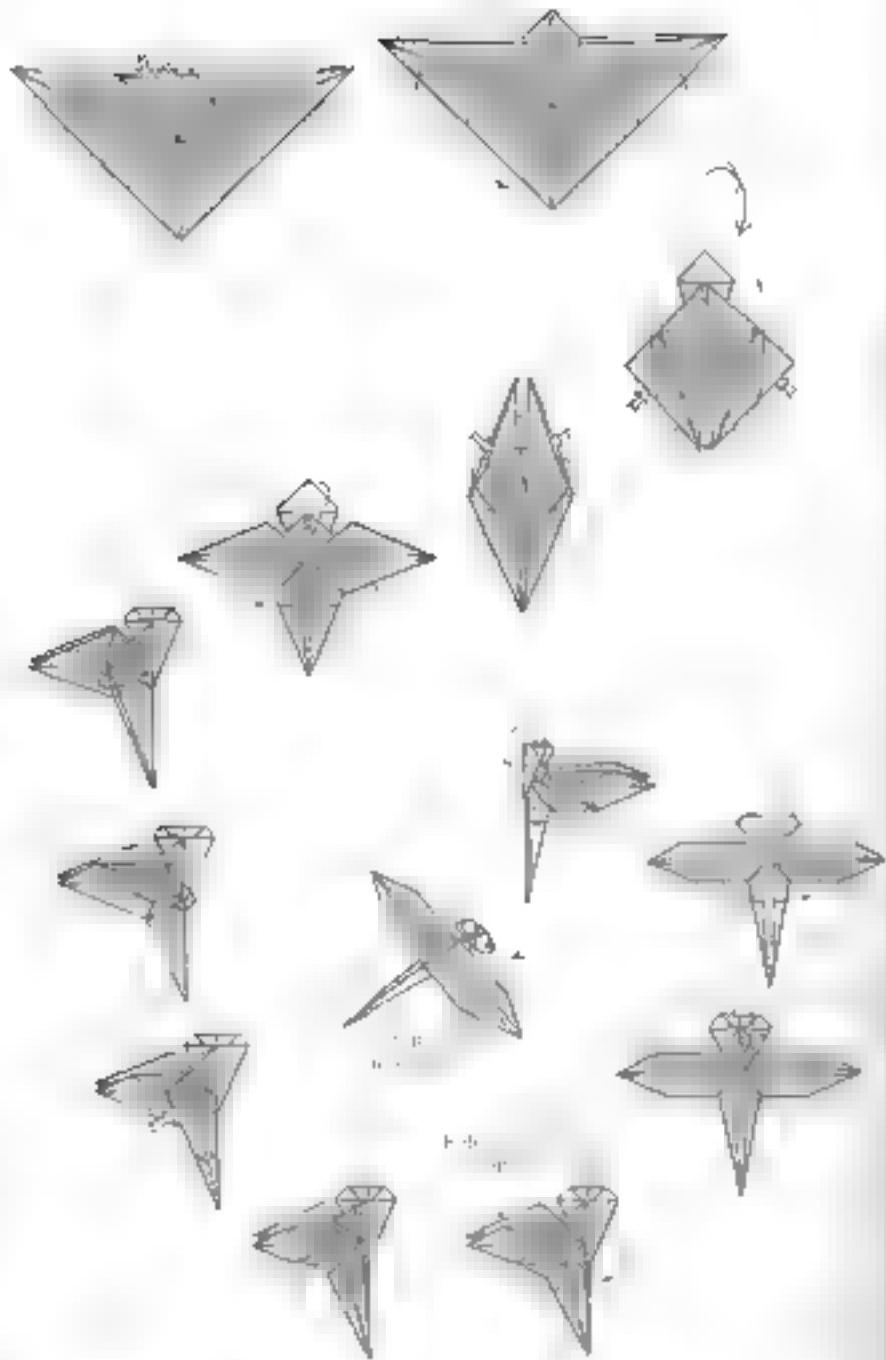


Alcance SW = 1000
Hab. = 1000000000
Habitat = 1000000000
Habitat = 1000000000
Habitat = 1000000000
Términos = 50000000
2 = 92



Dragonfly

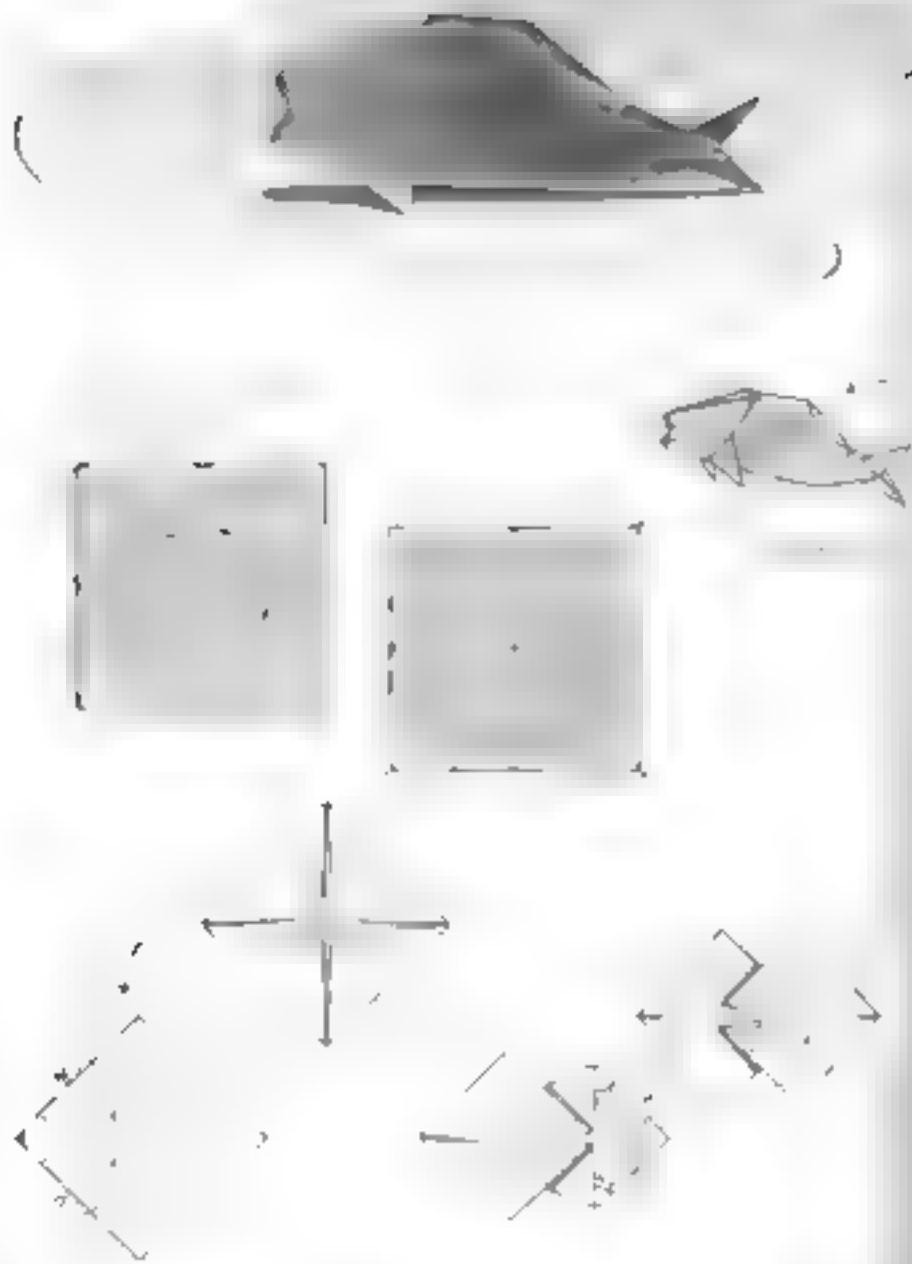


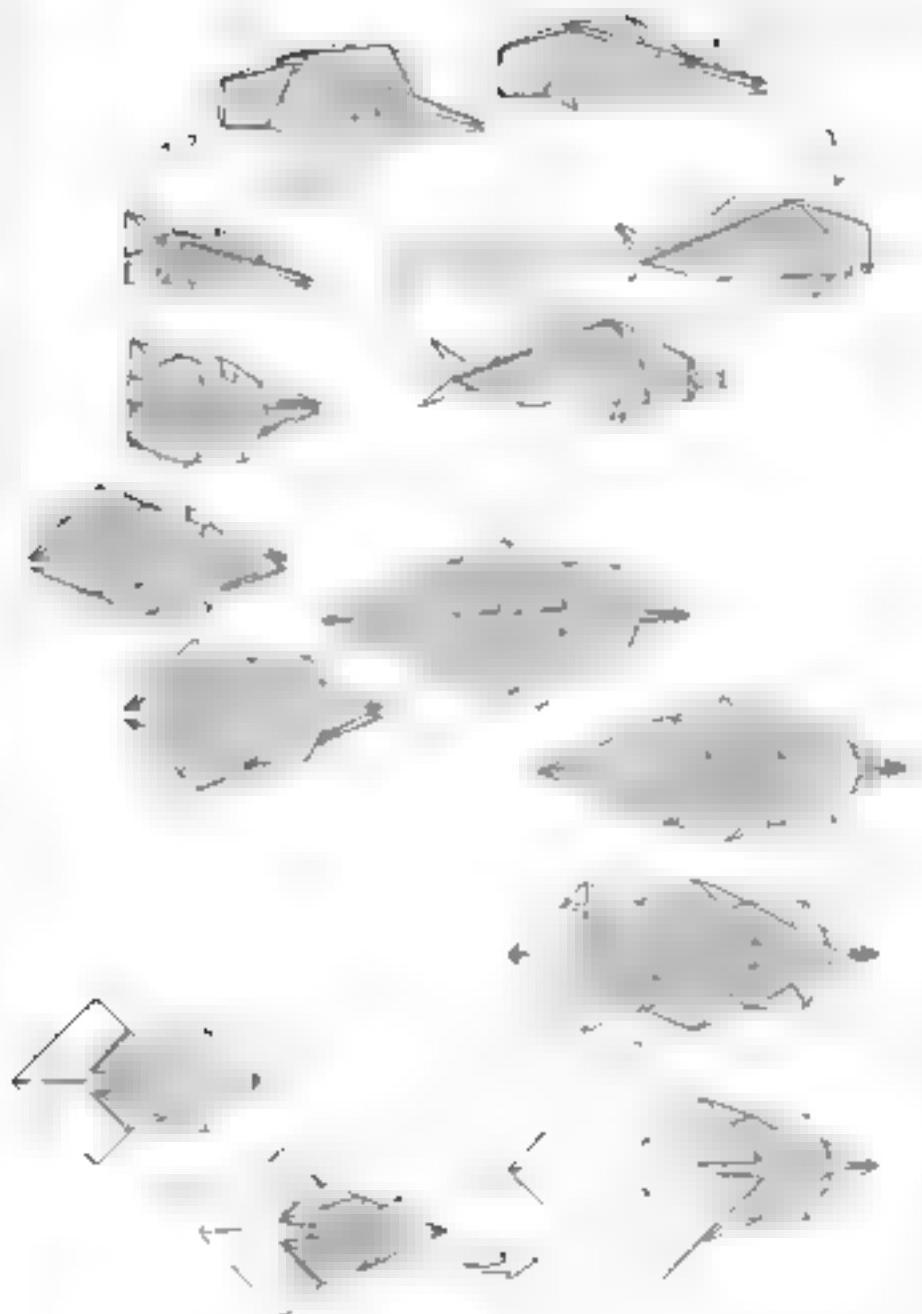


Hopping Grasshopper

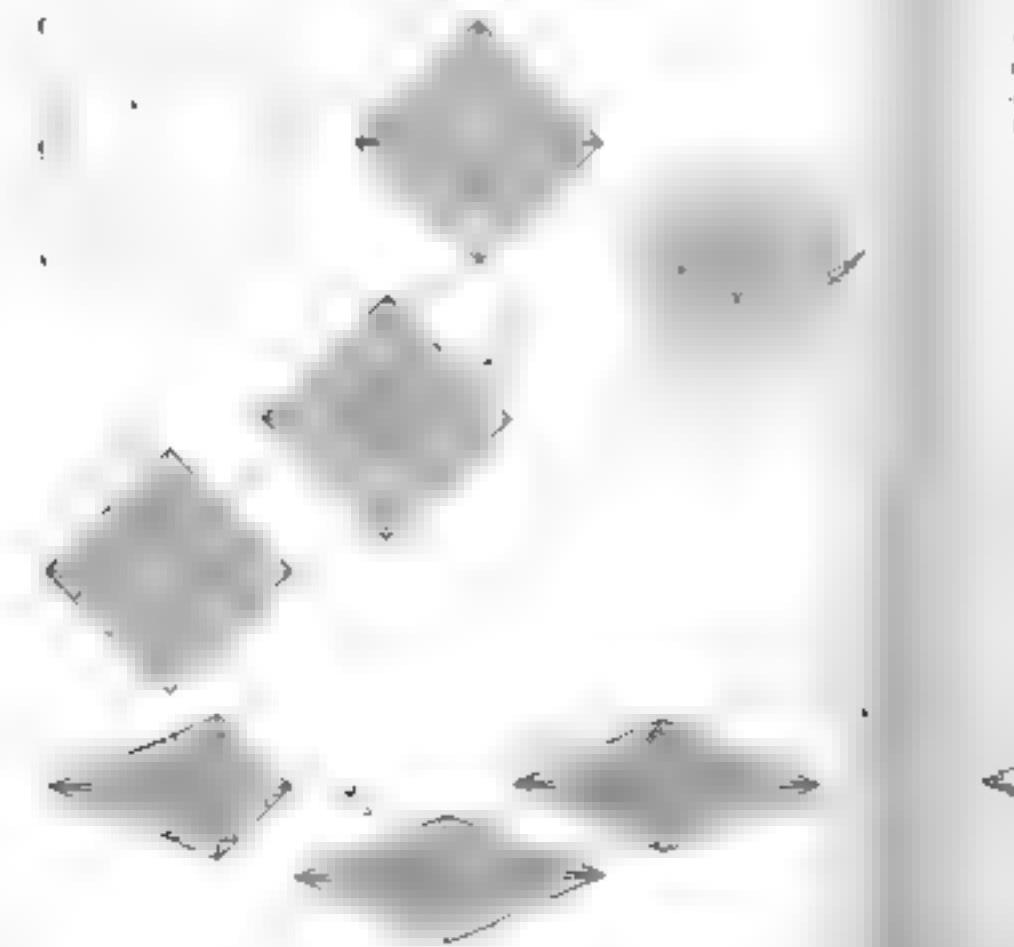
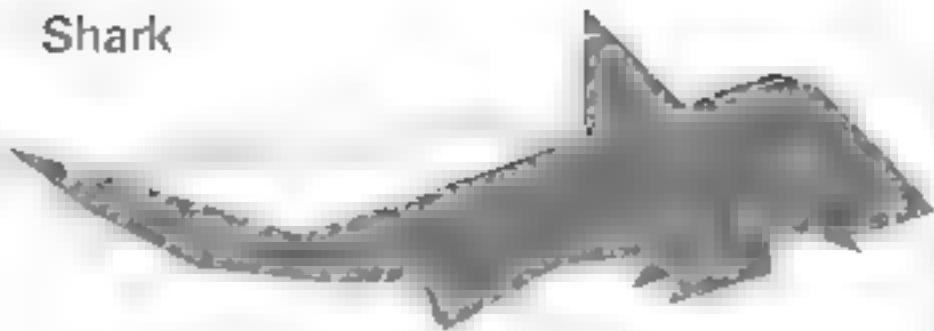
For fun

Carp



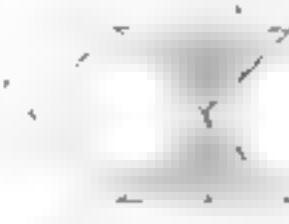
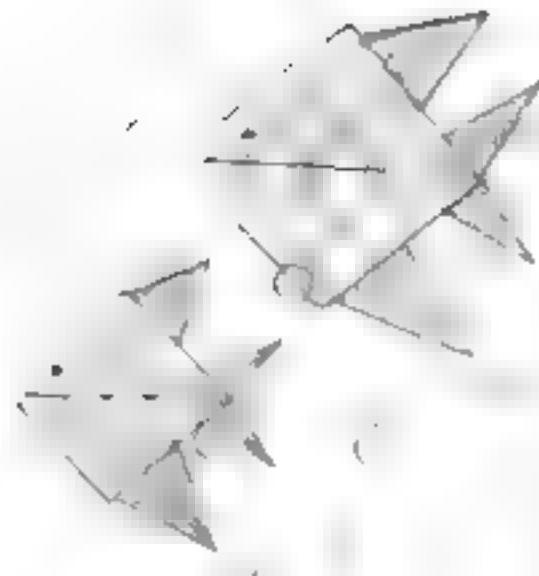


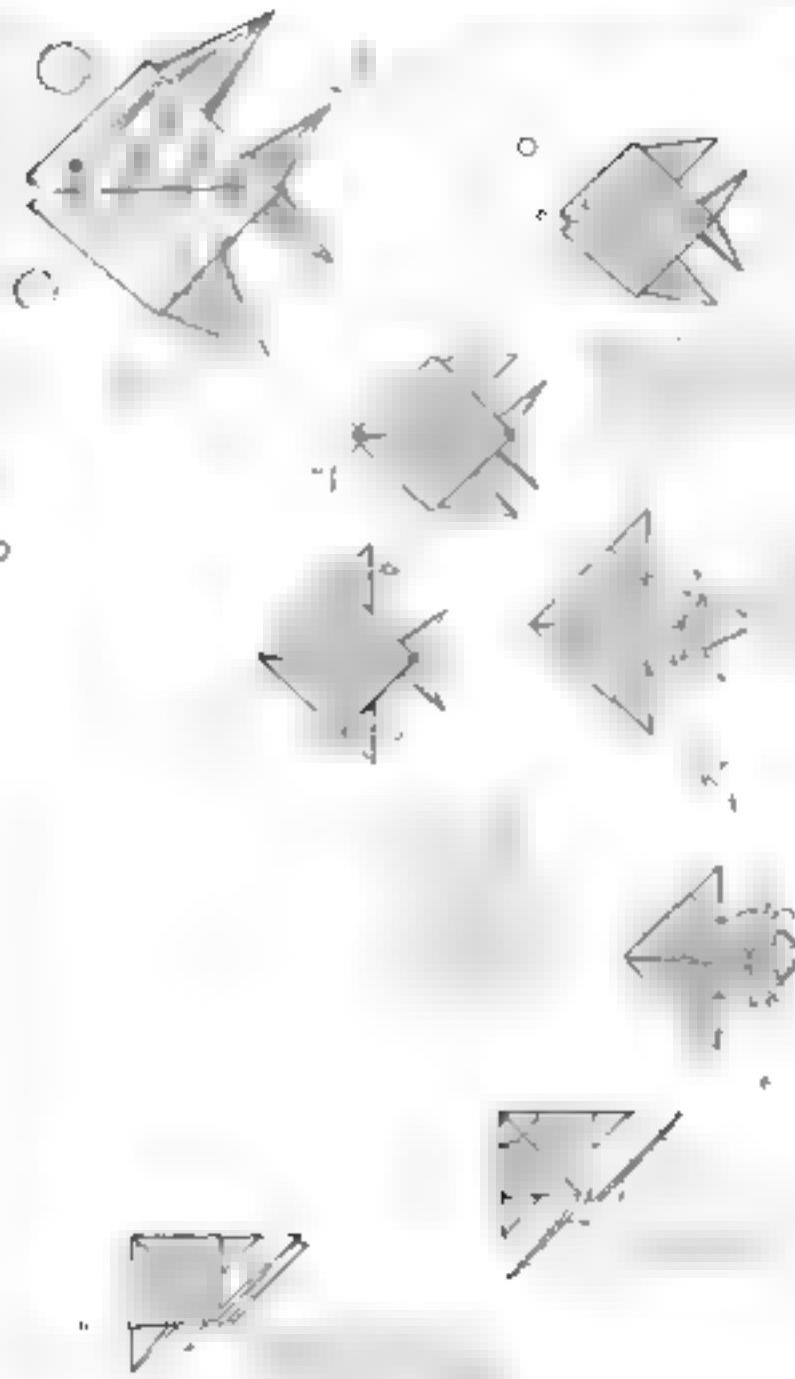
Shark



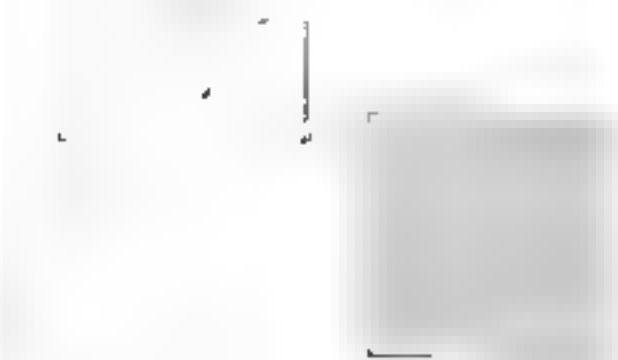
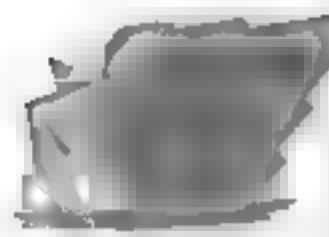
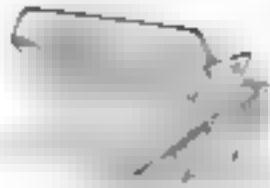


Tropical Fish





Hermit Crab



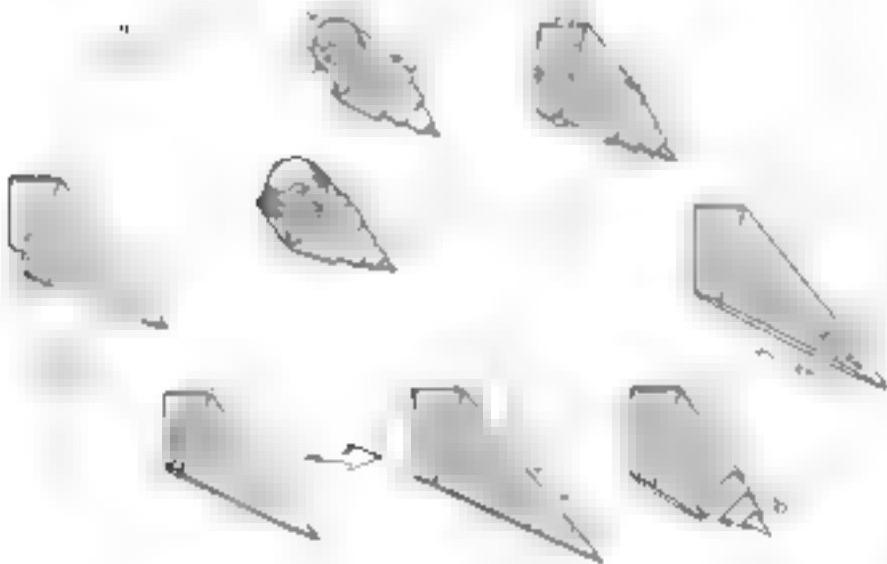
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Univalve Shell

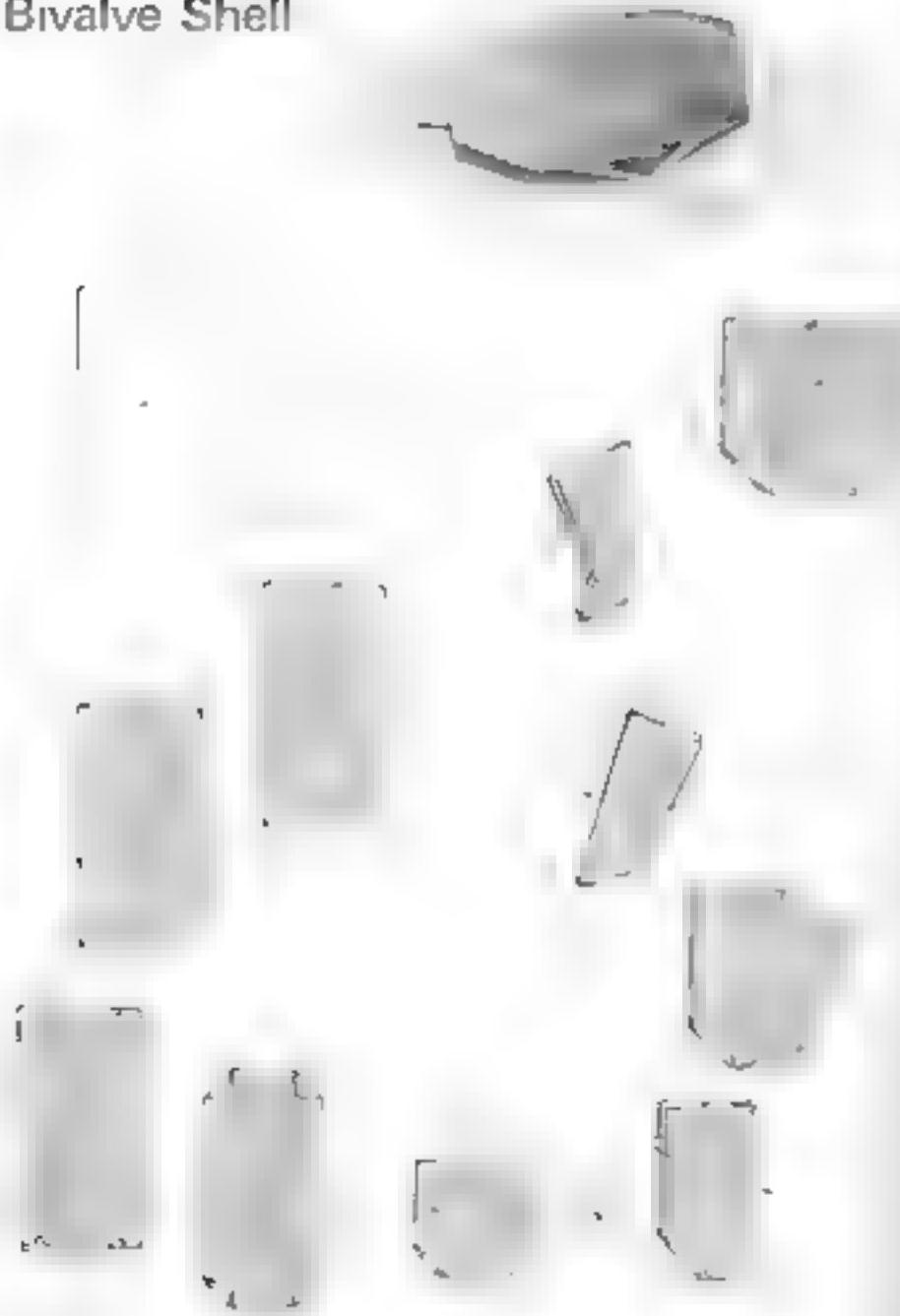




By the sea, by the sea,
by the beautiful sea

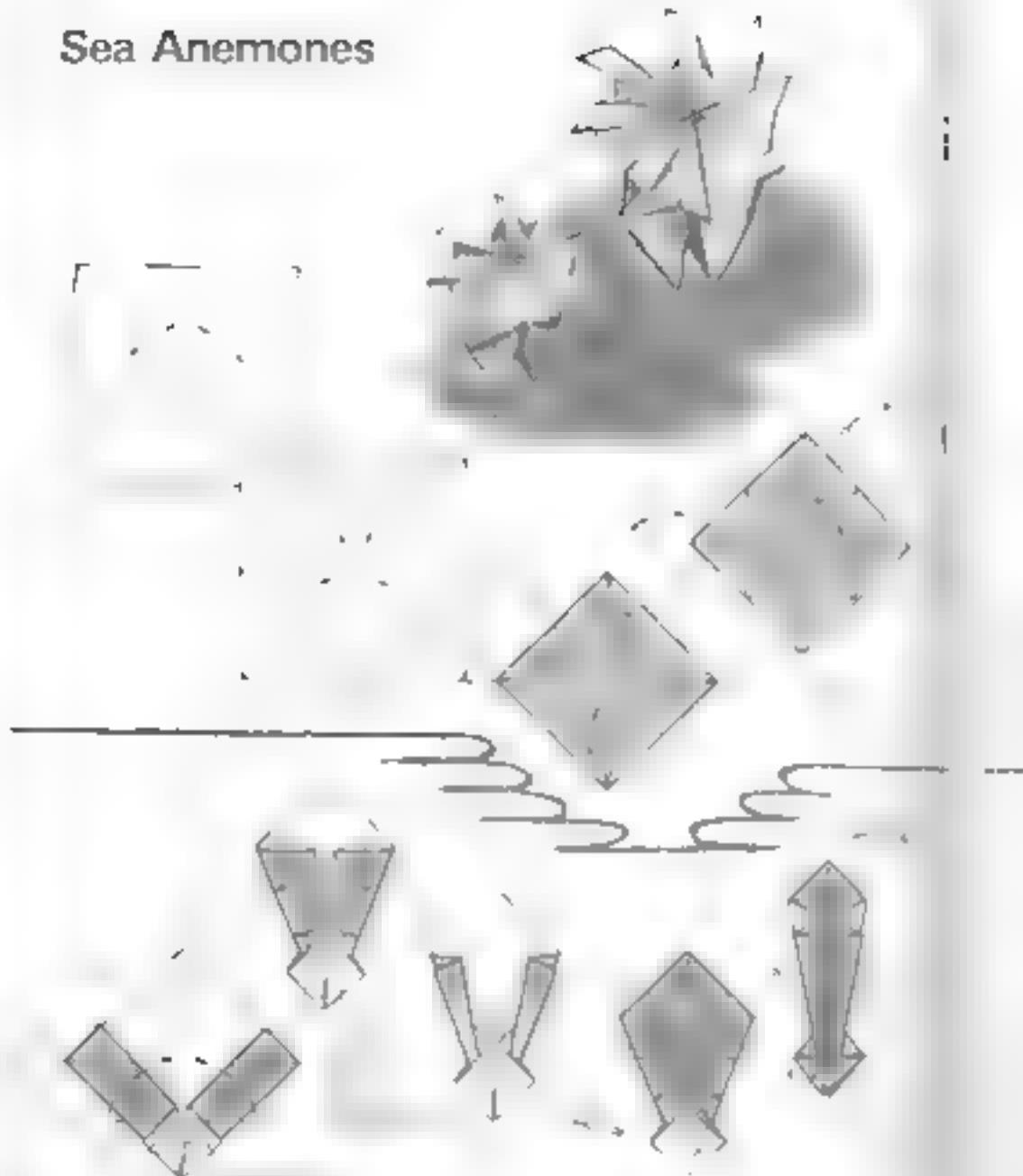


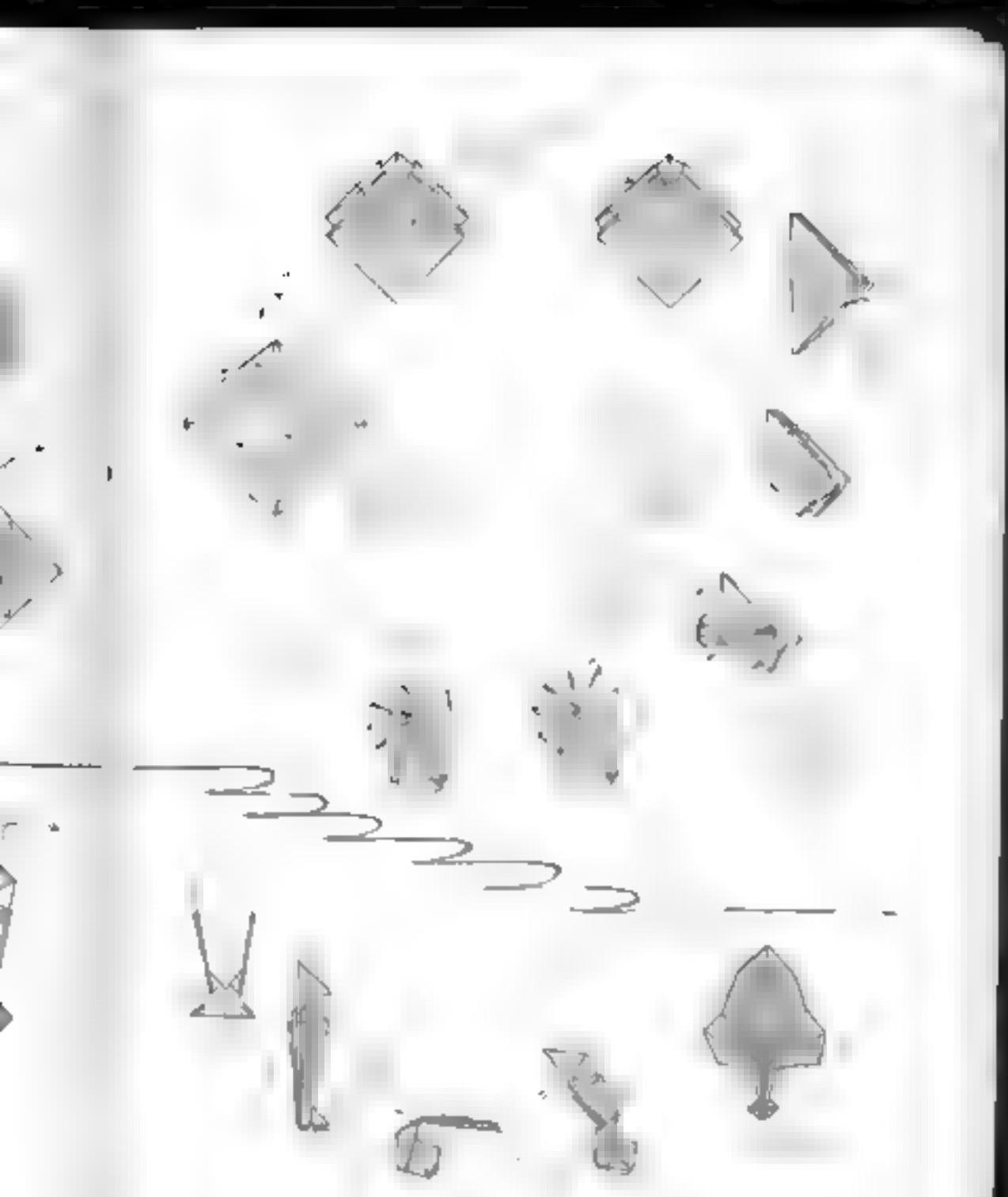
Bivalve Shell



Seaweeds

Sea Anemones

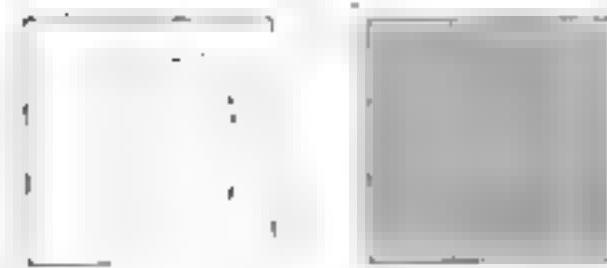


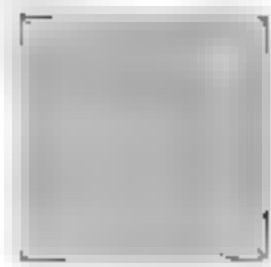
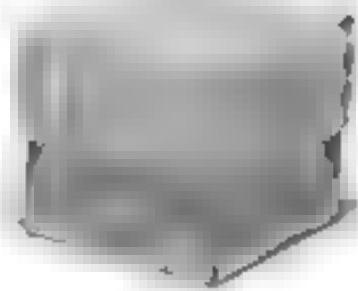
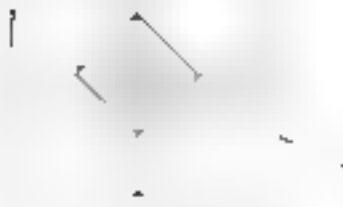
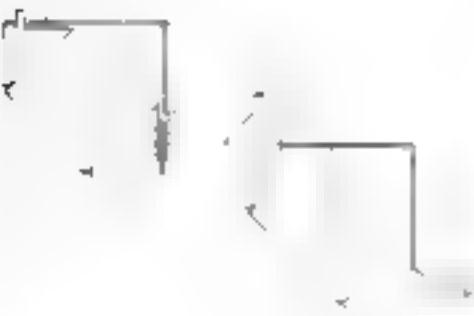


Bantz fold



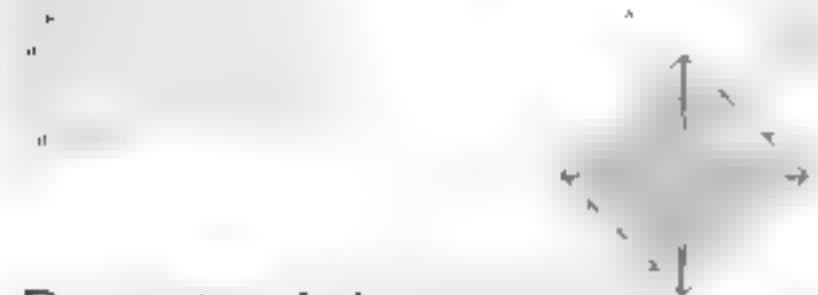
The perfectly fitting lid





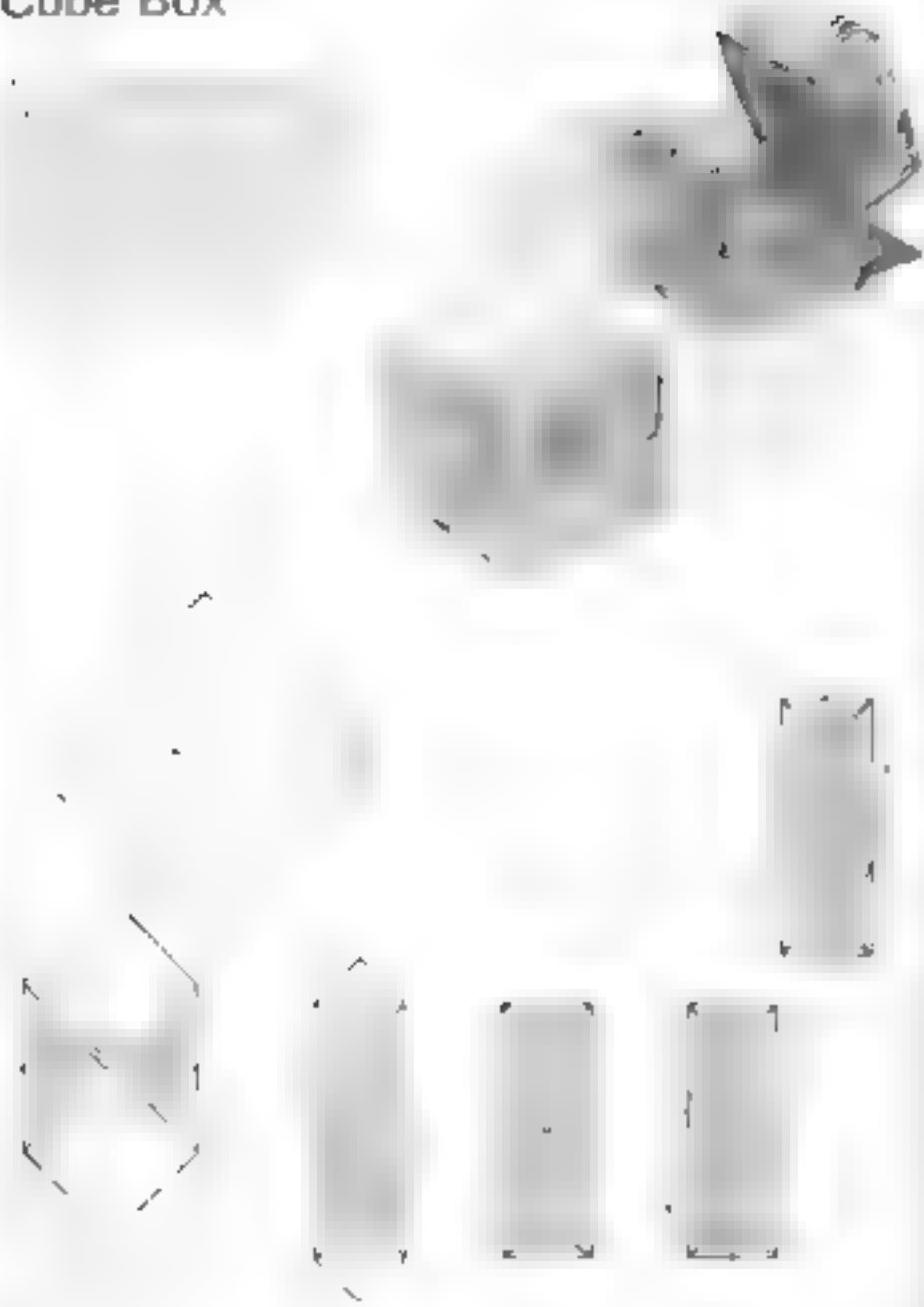
Improvements on Traditional Works

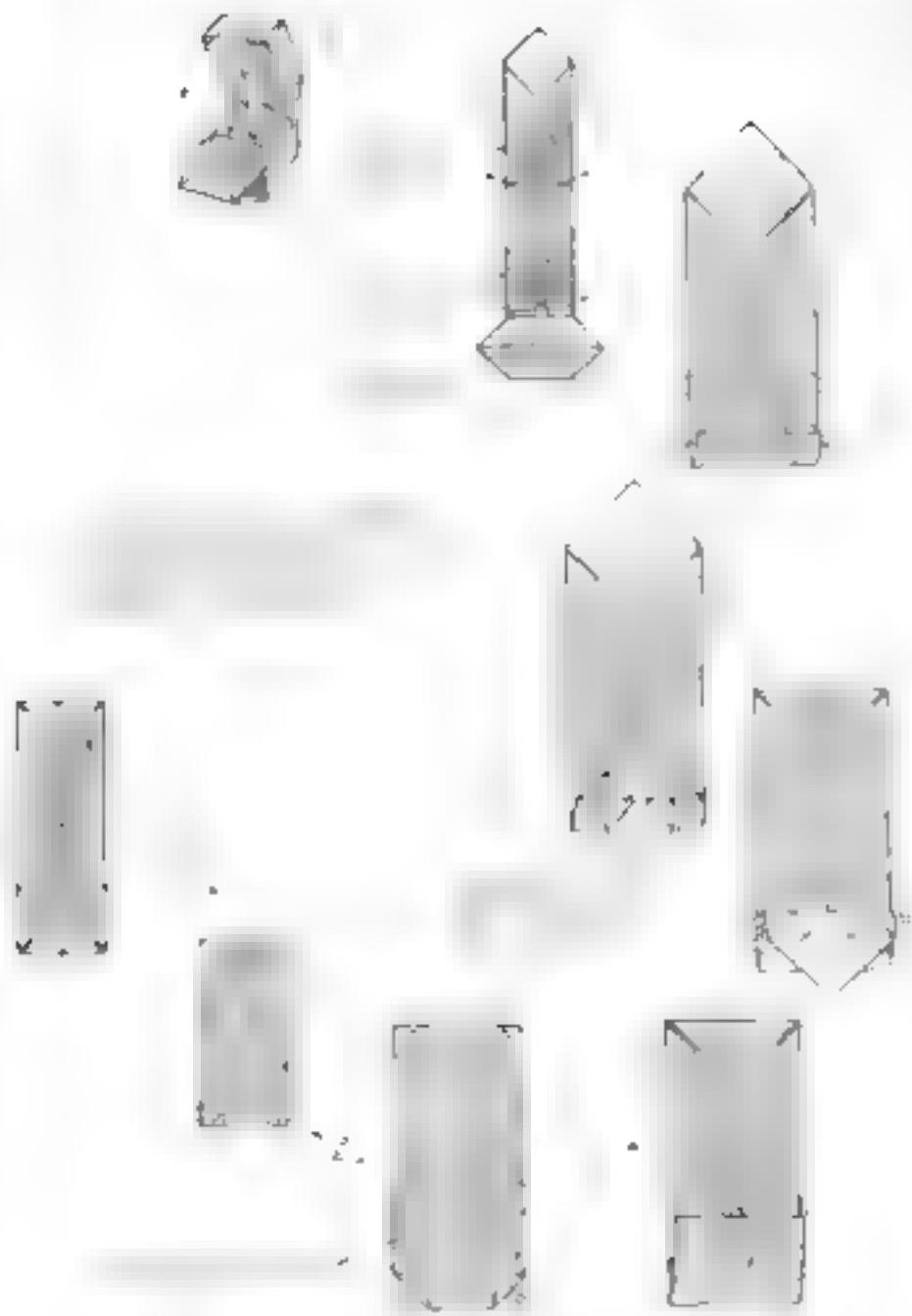
1. **Decorative Lid**



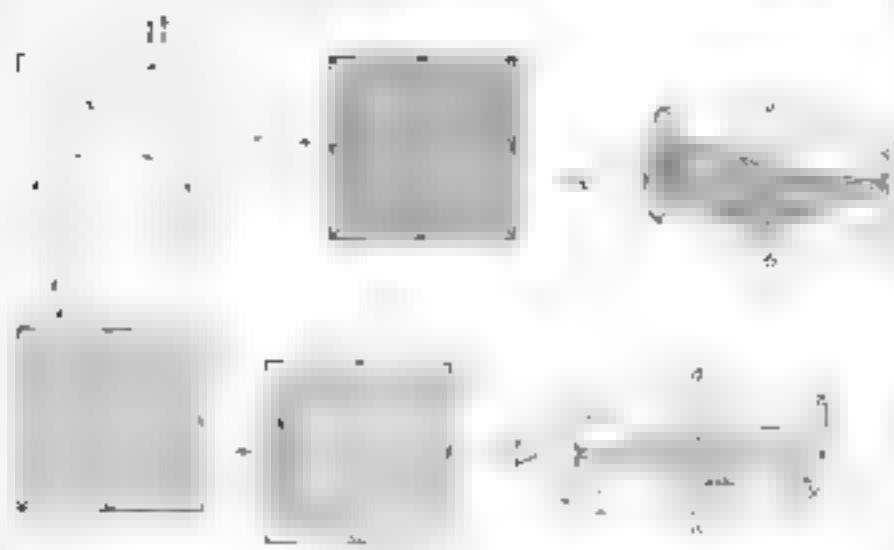
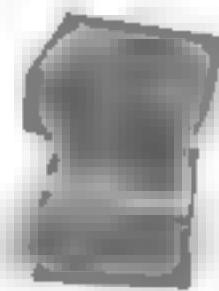
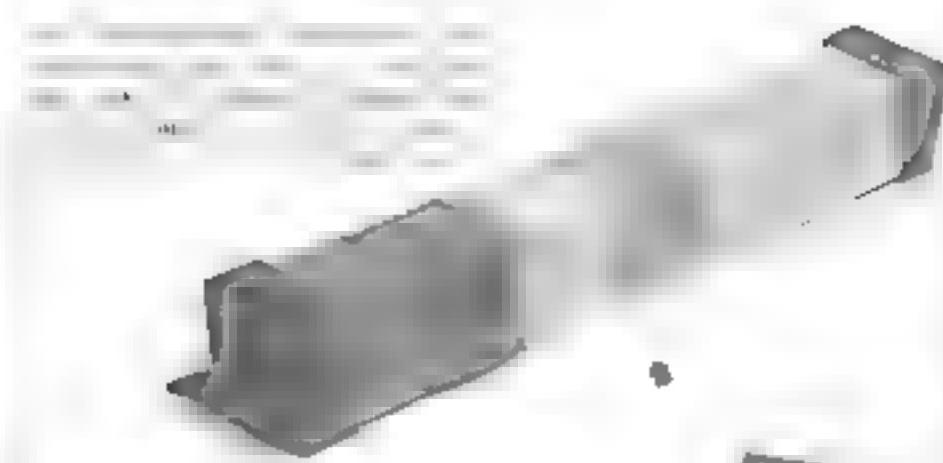
Decorative Lid

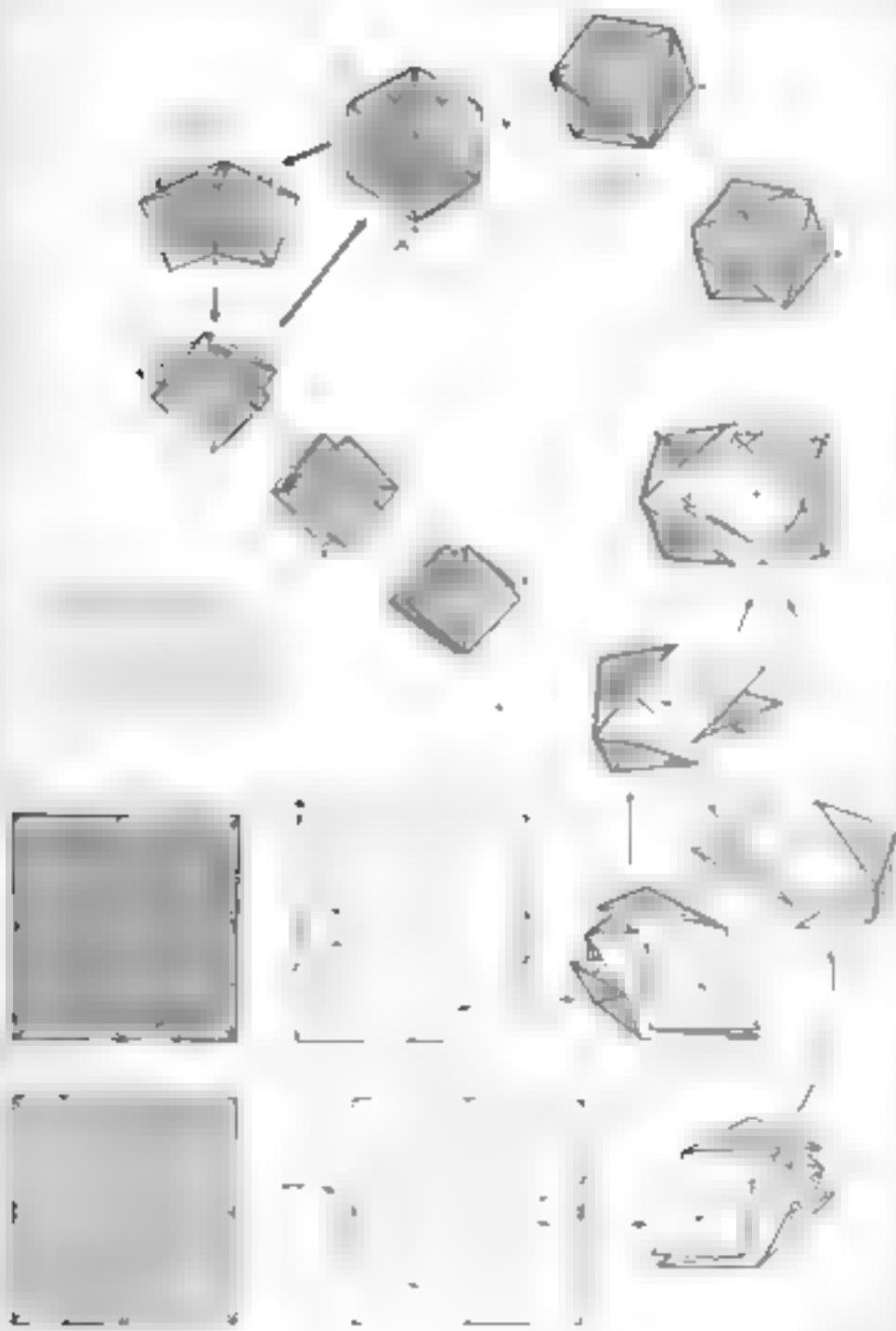
Cube Box



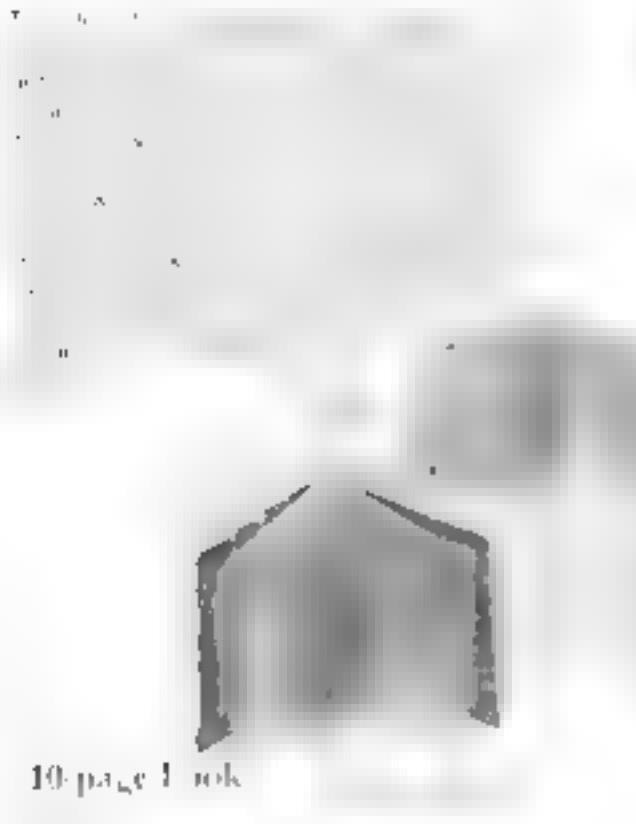


Four-dimensional (?) Box

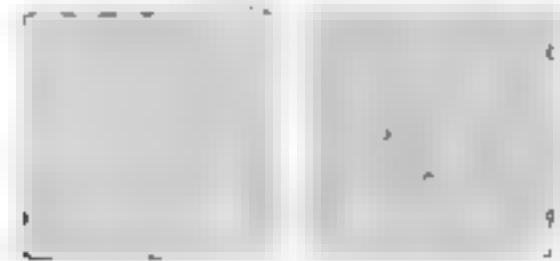




Book (Paperback)



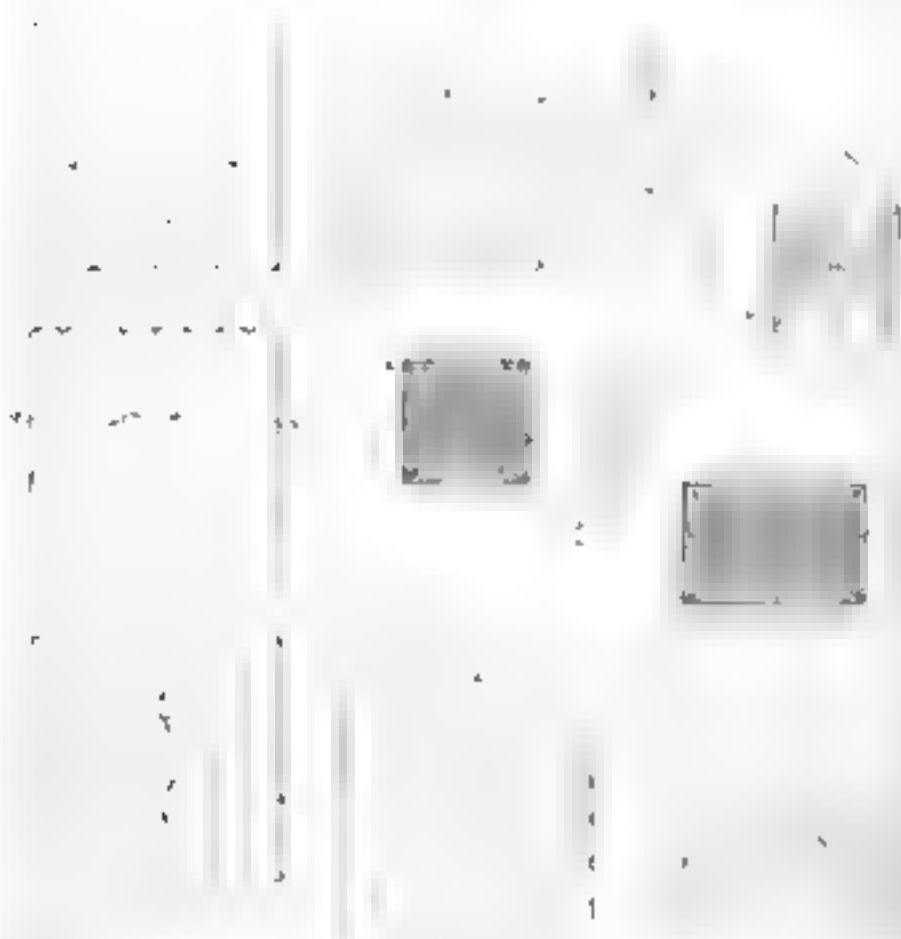
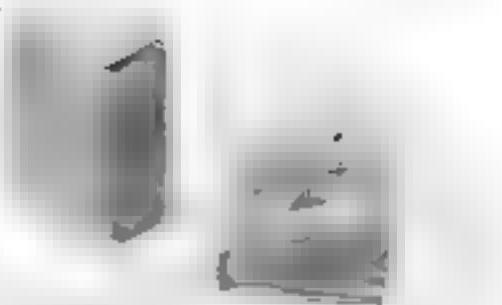
10-page Book



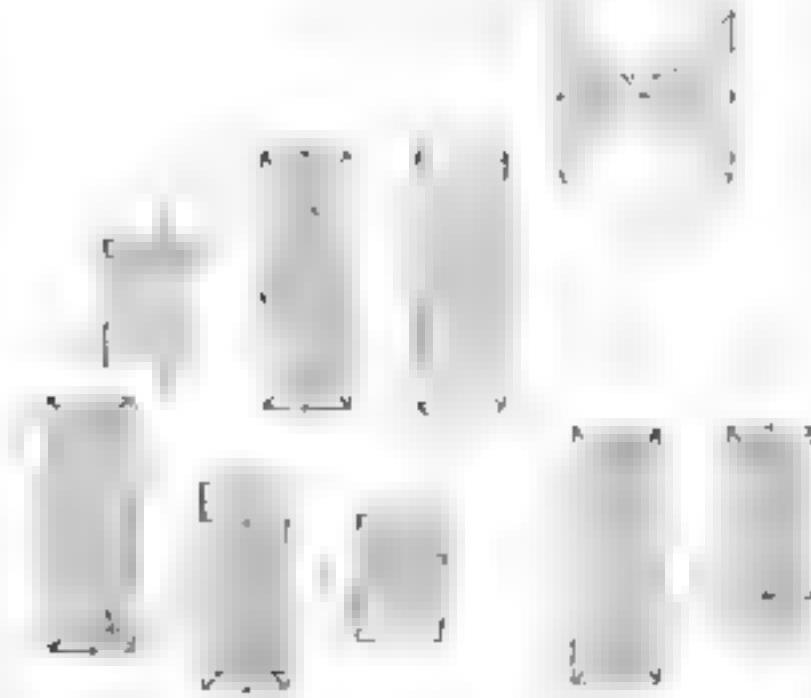
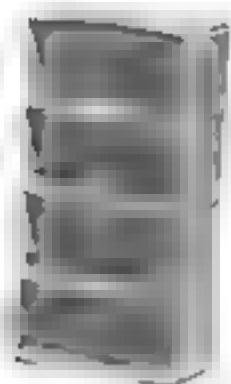
16-page book

Hard-cover Book with Case

10" x 14" x 1" 450g
10" x 14" x 1" 300g
10" x 14" x 1" 200g

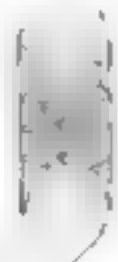
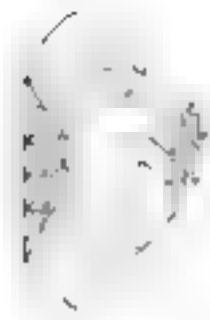
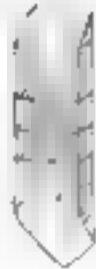


Bookcase

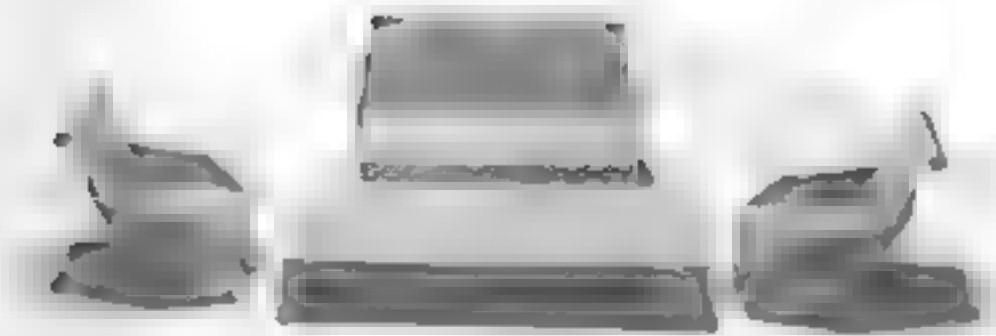
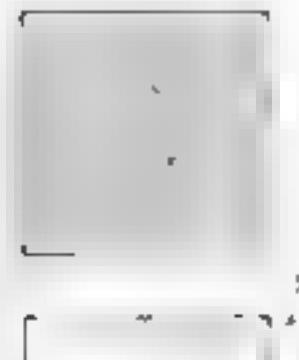


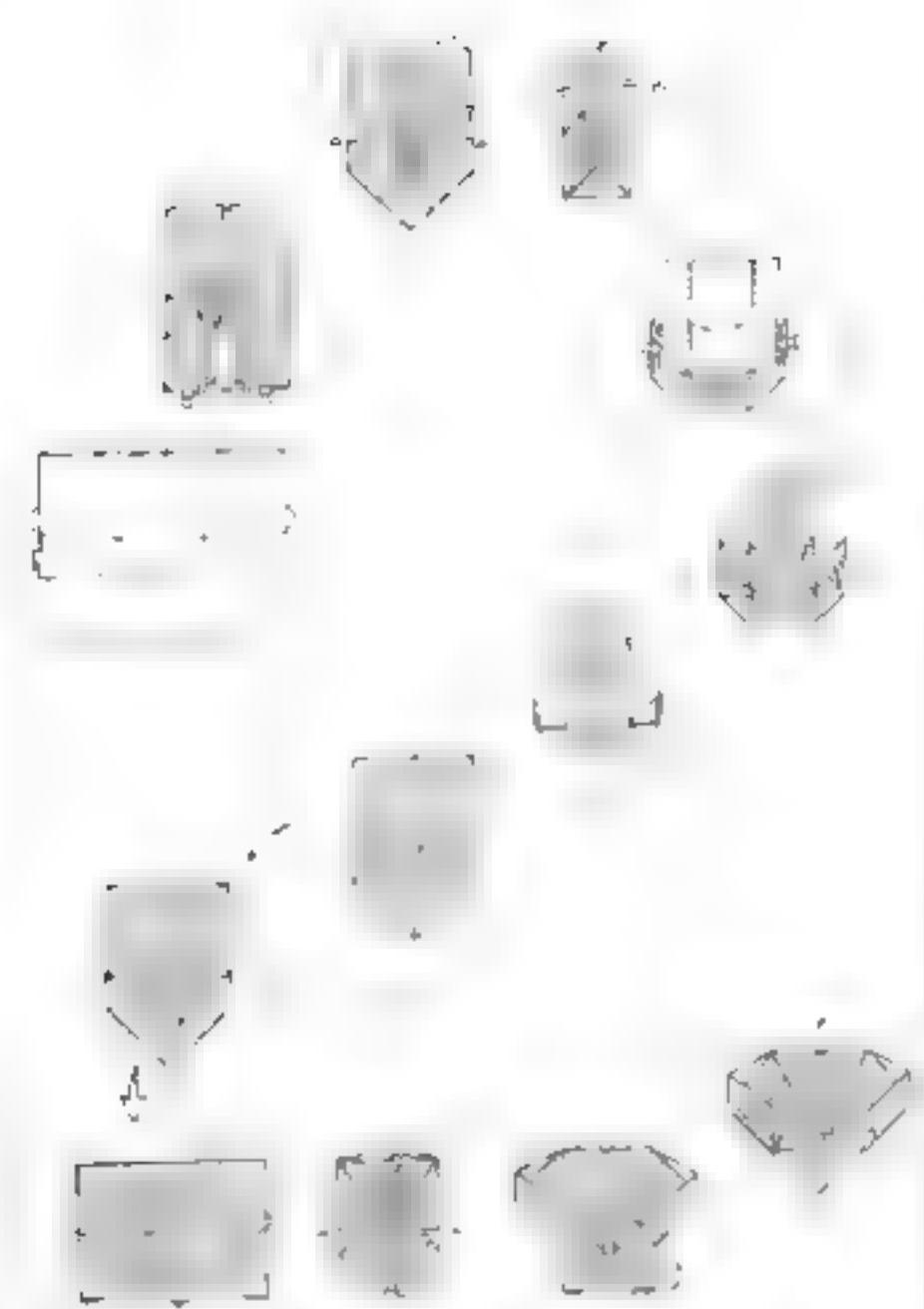


مکانیزم
کنترل

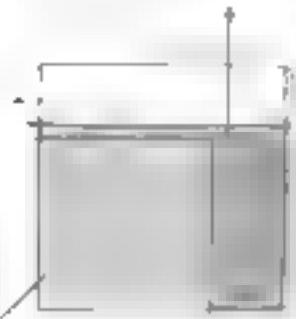
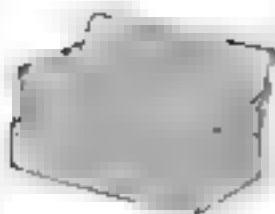
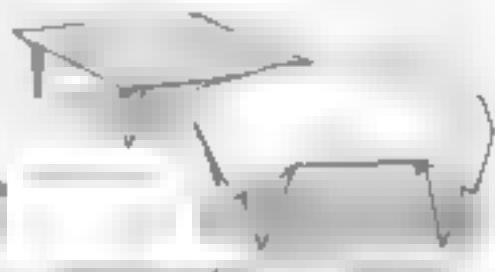
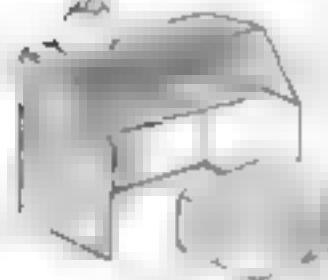


Chair and Sofa



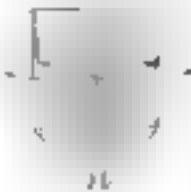
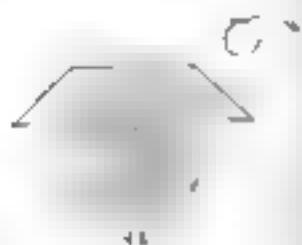
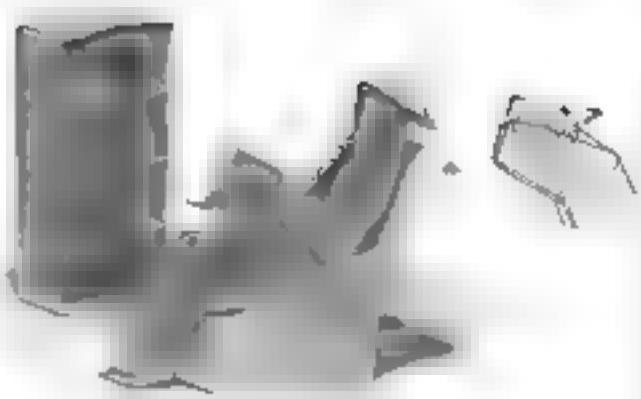


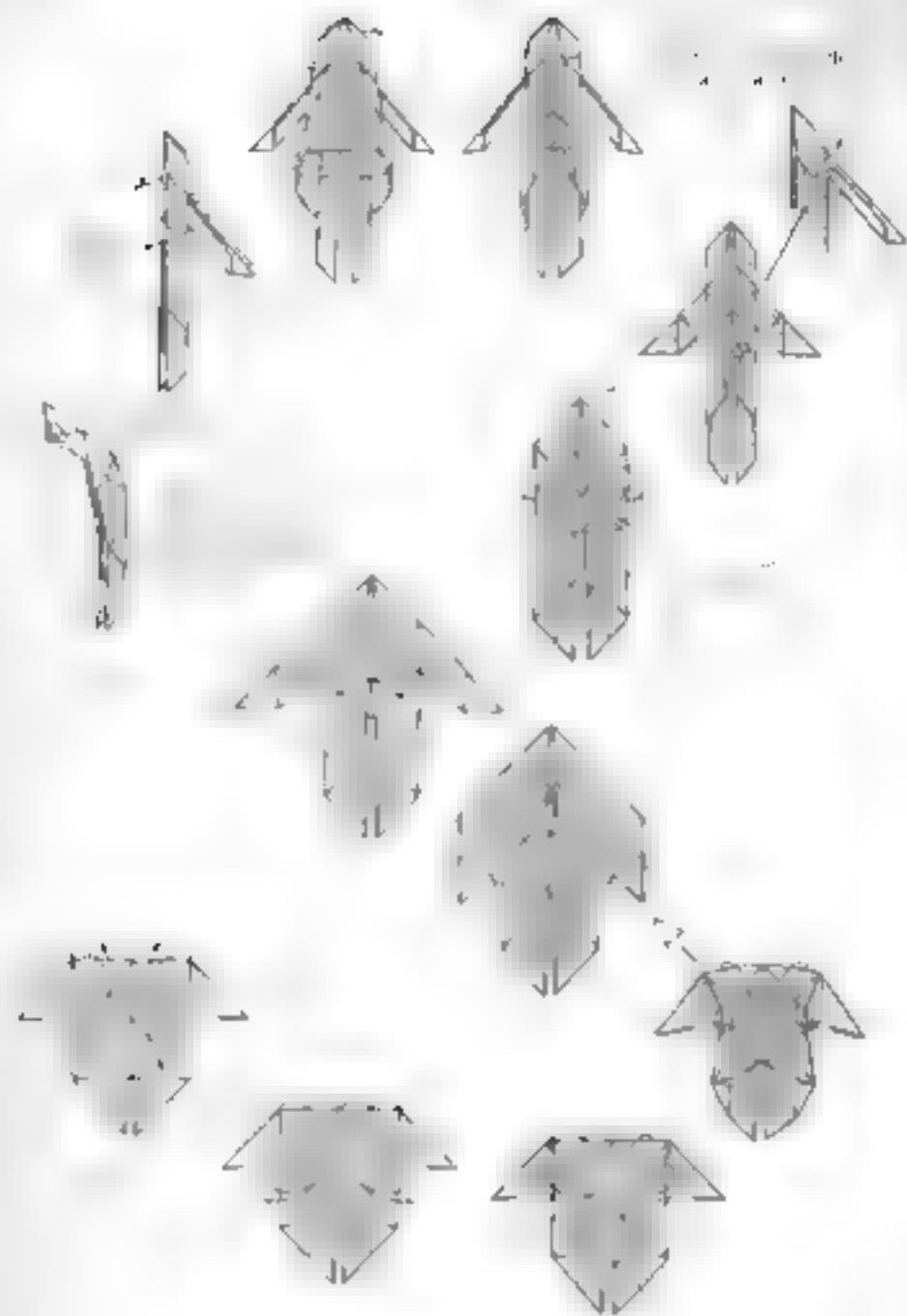
Furnishings made from traditional folds



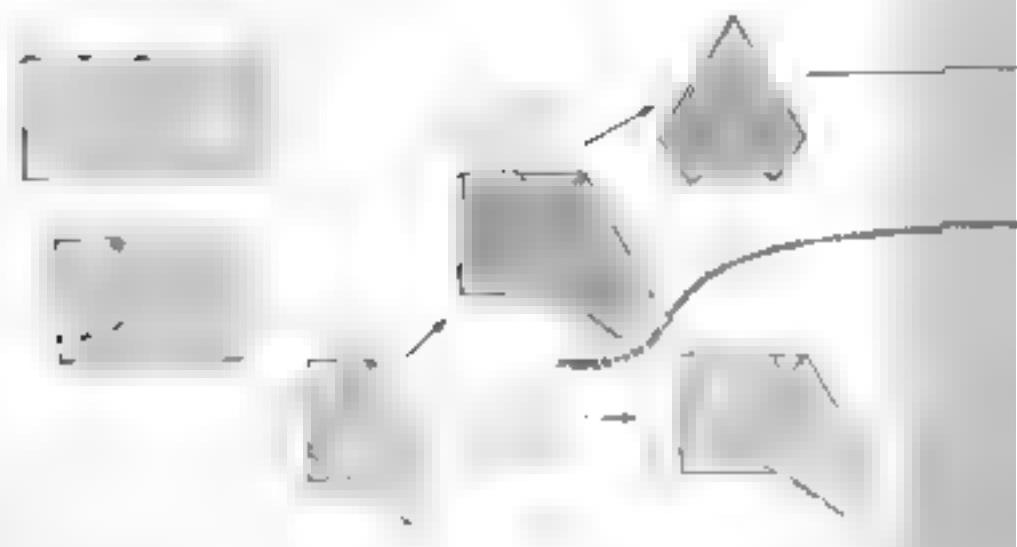
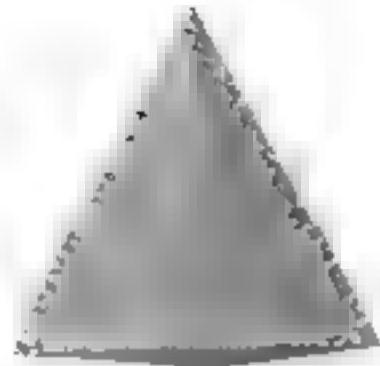
The Reader

The child reads
fever speaks to you
meets a visitor
goes to school
is sick at home
etc.

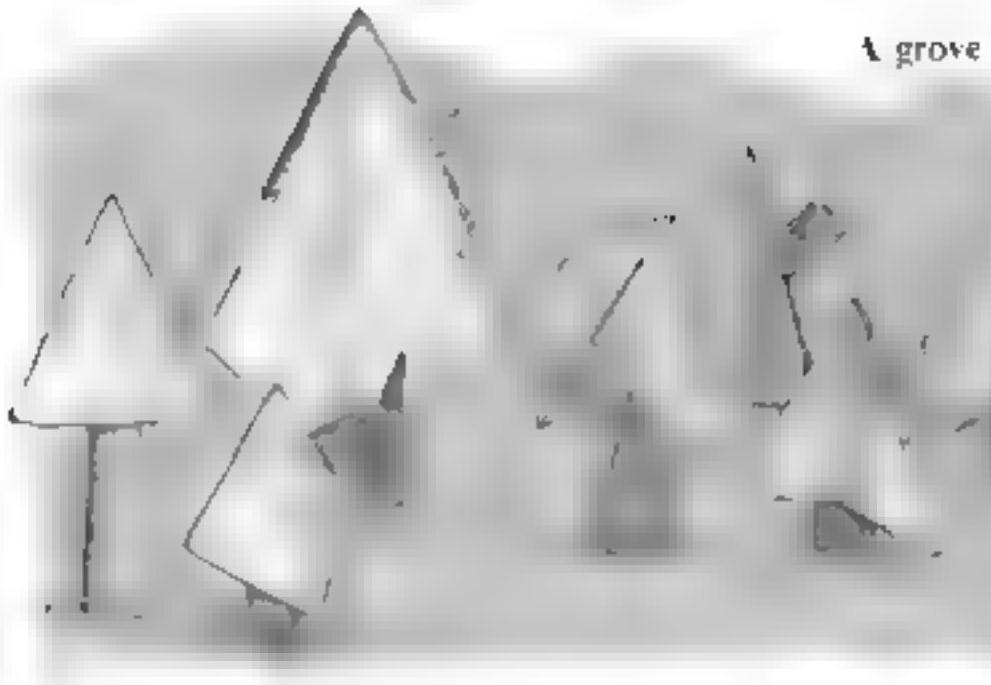




Tricorn Hat and Tree 1

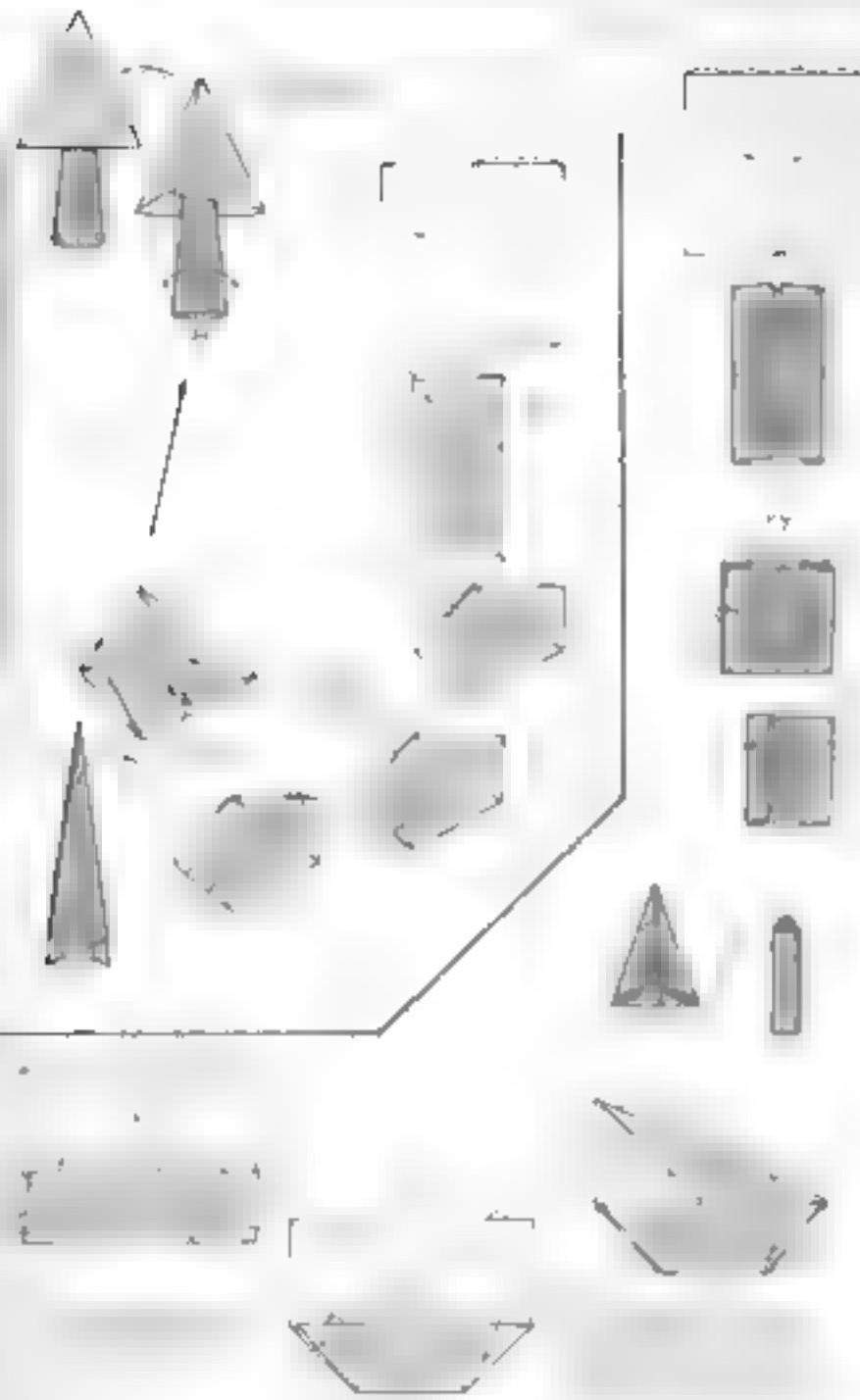




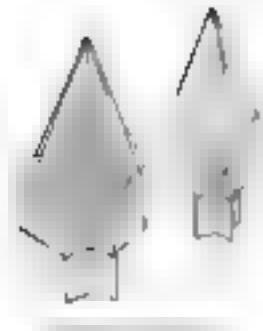


Trees II and III





For the Sake of the Numbers

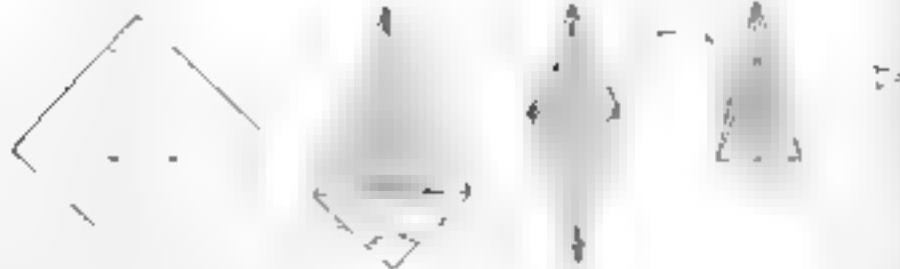


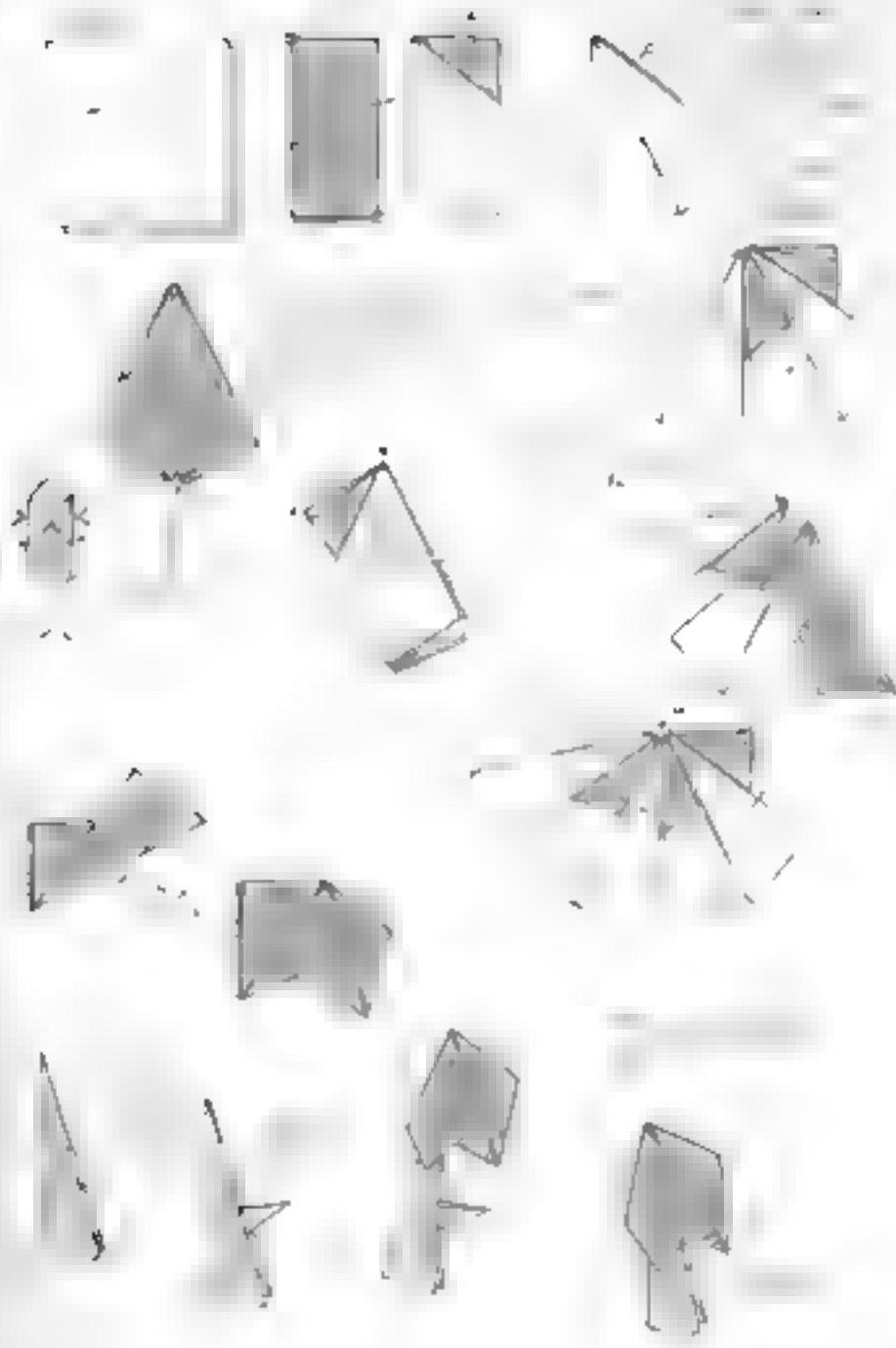
Tree IV

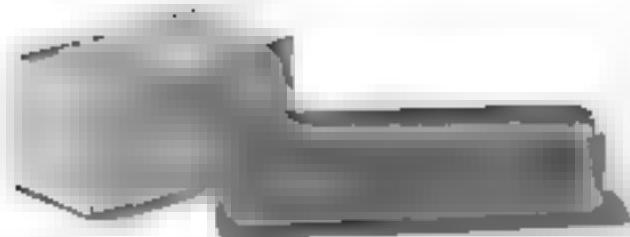


Tree VI

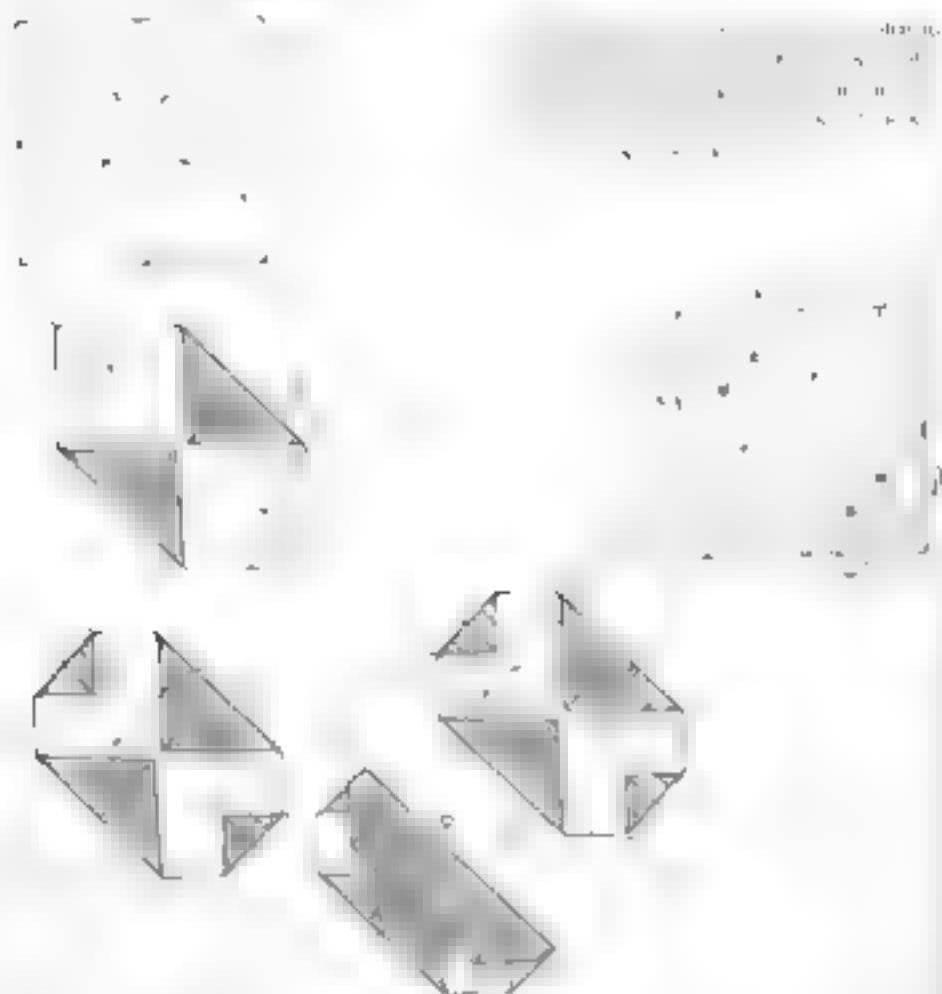
Tree V



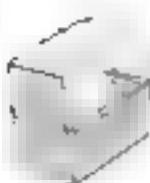
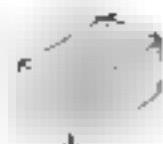
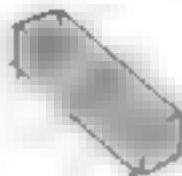
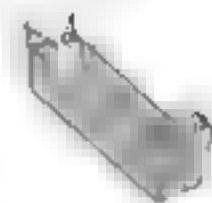
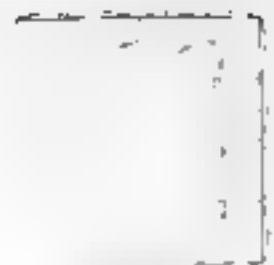
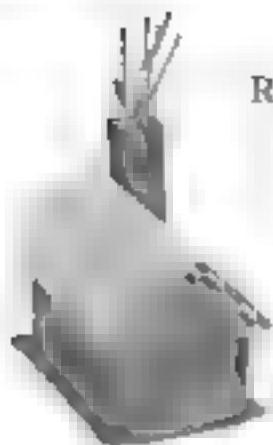


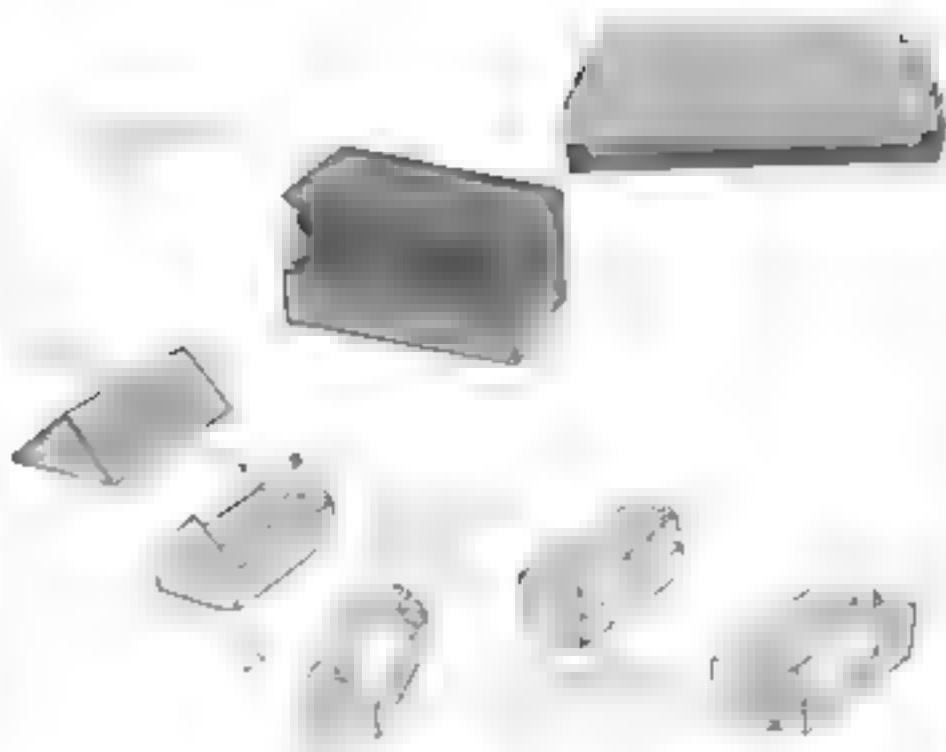


Long rectangular box

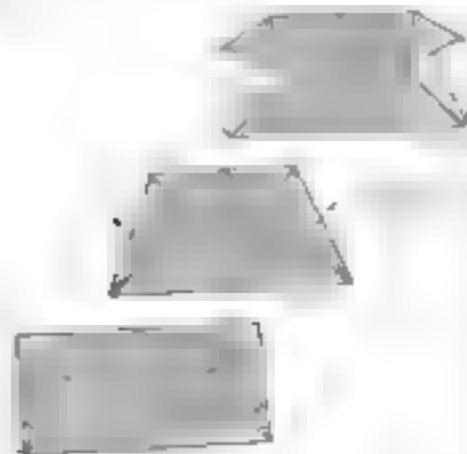


Rectangular box



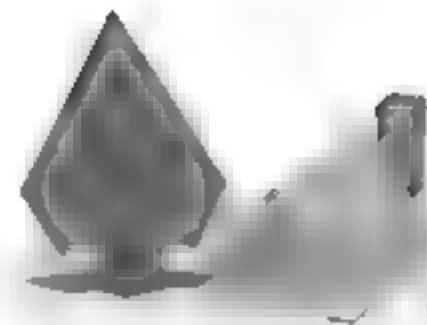


Roof I





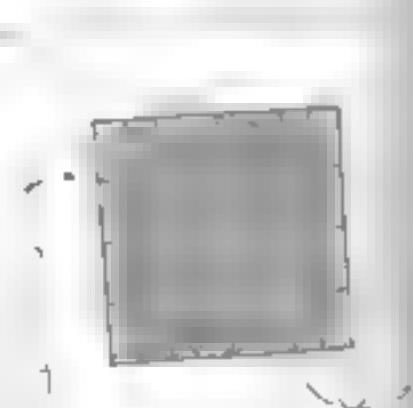
Friedrich Froebel

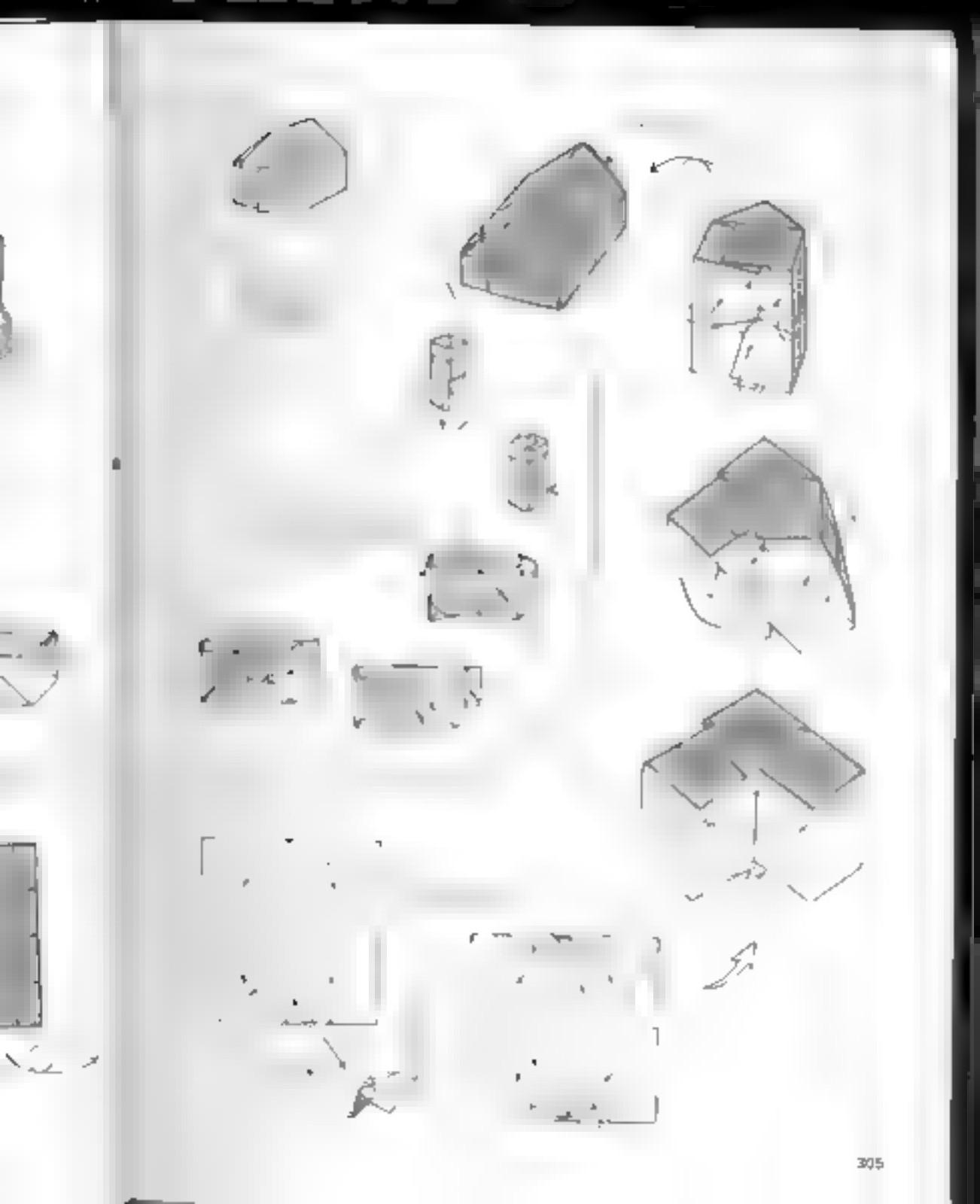


House

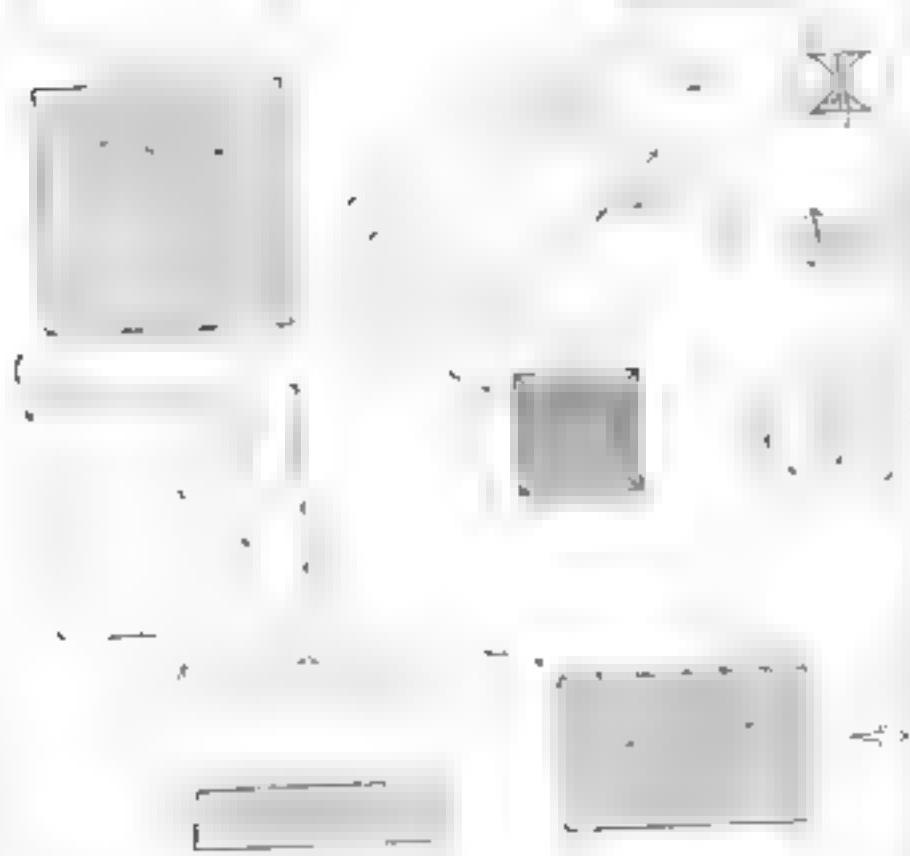


Chimney

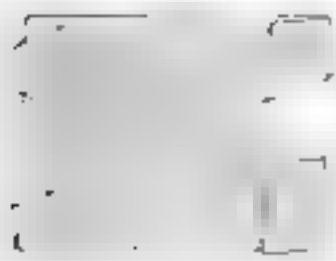
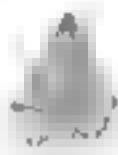




Church

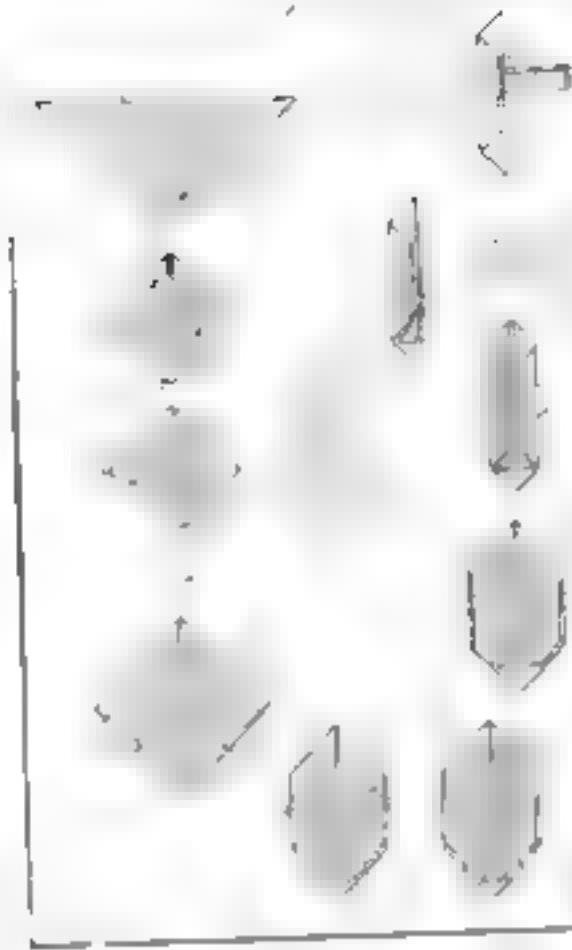


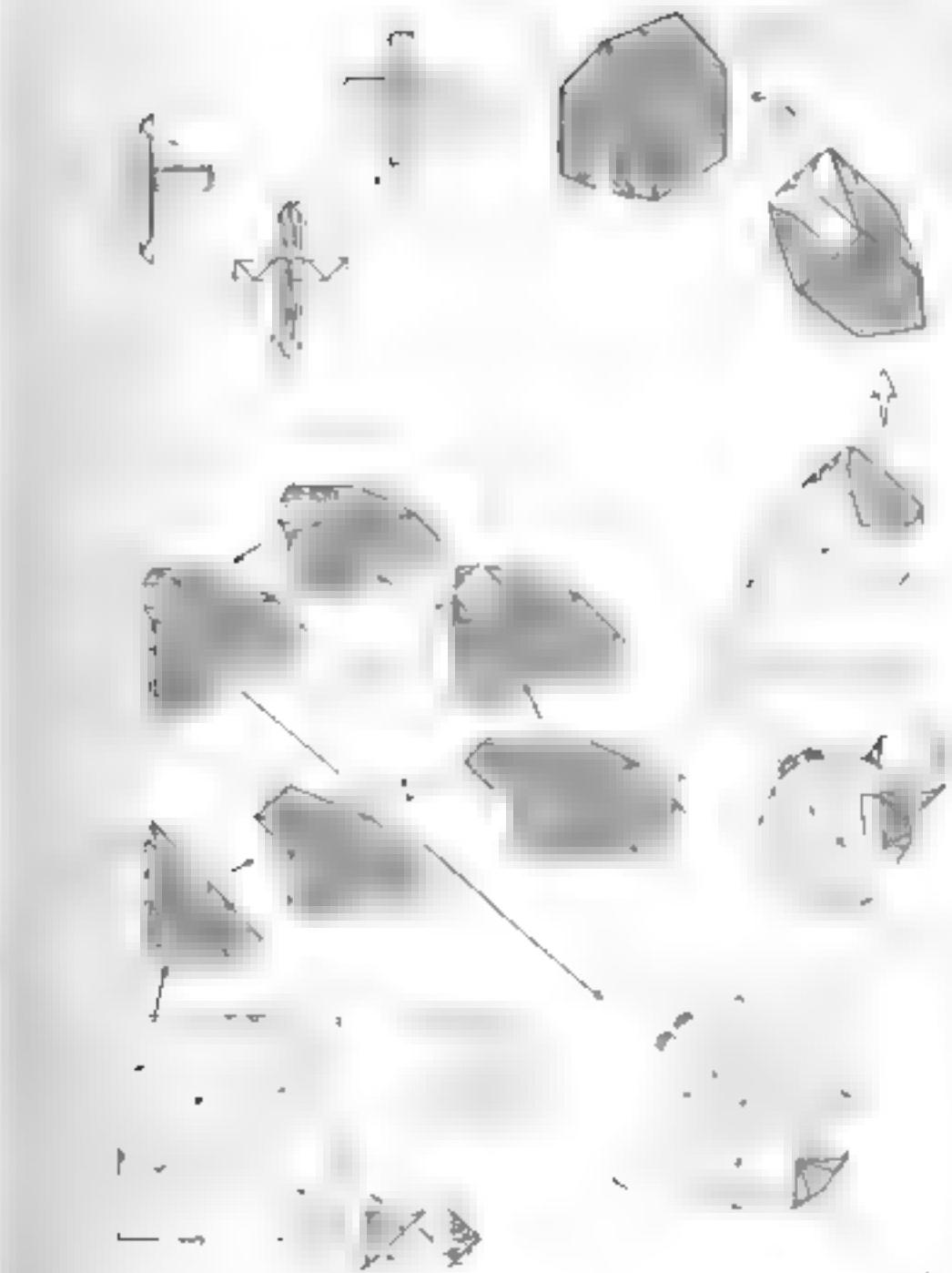
Learning from others

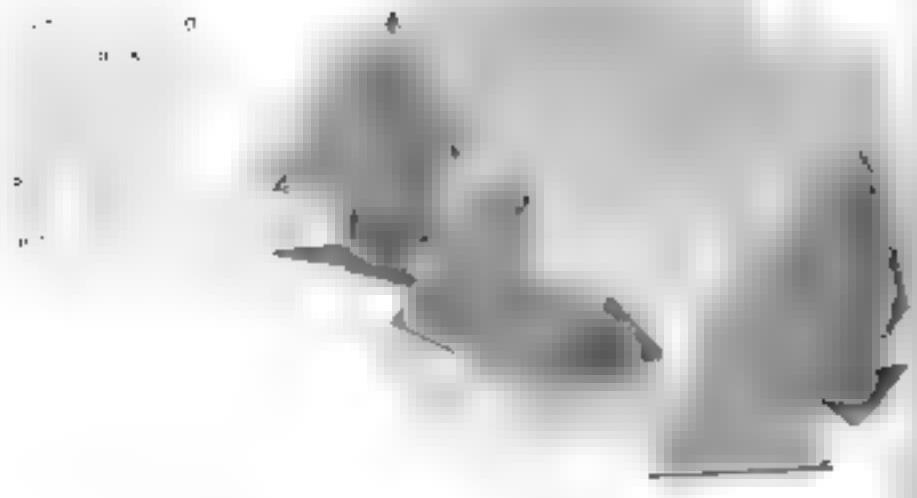


Cross

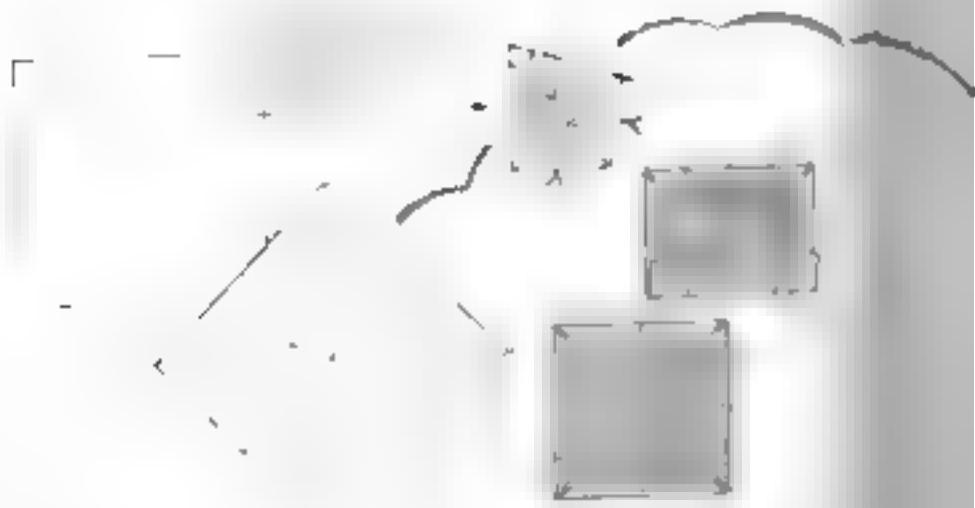
Chapel





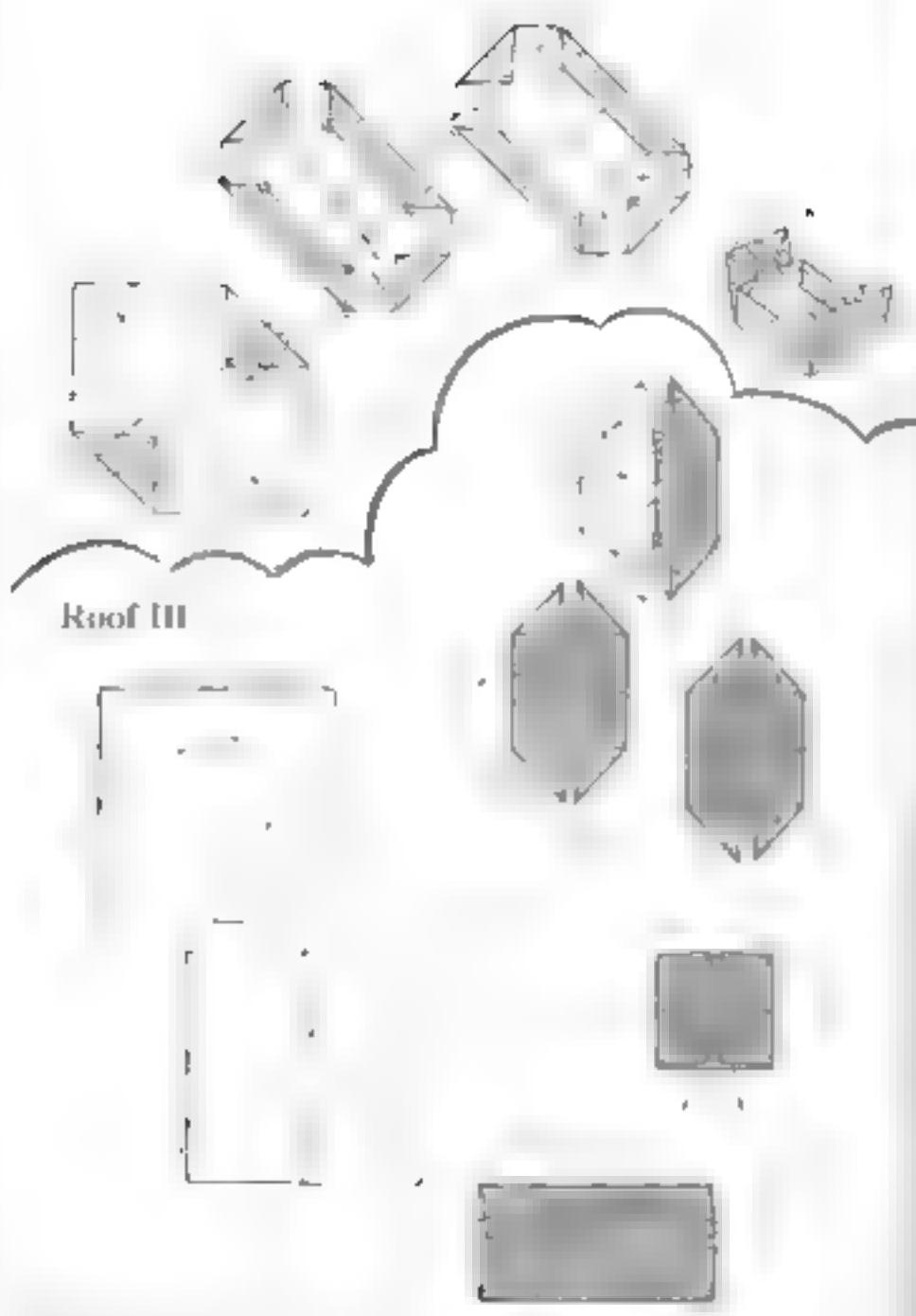


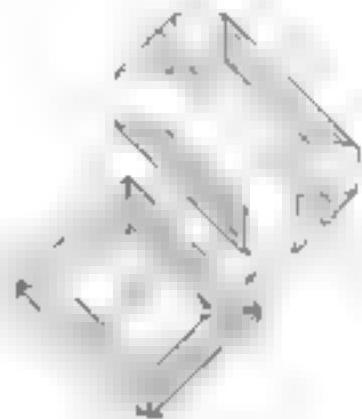
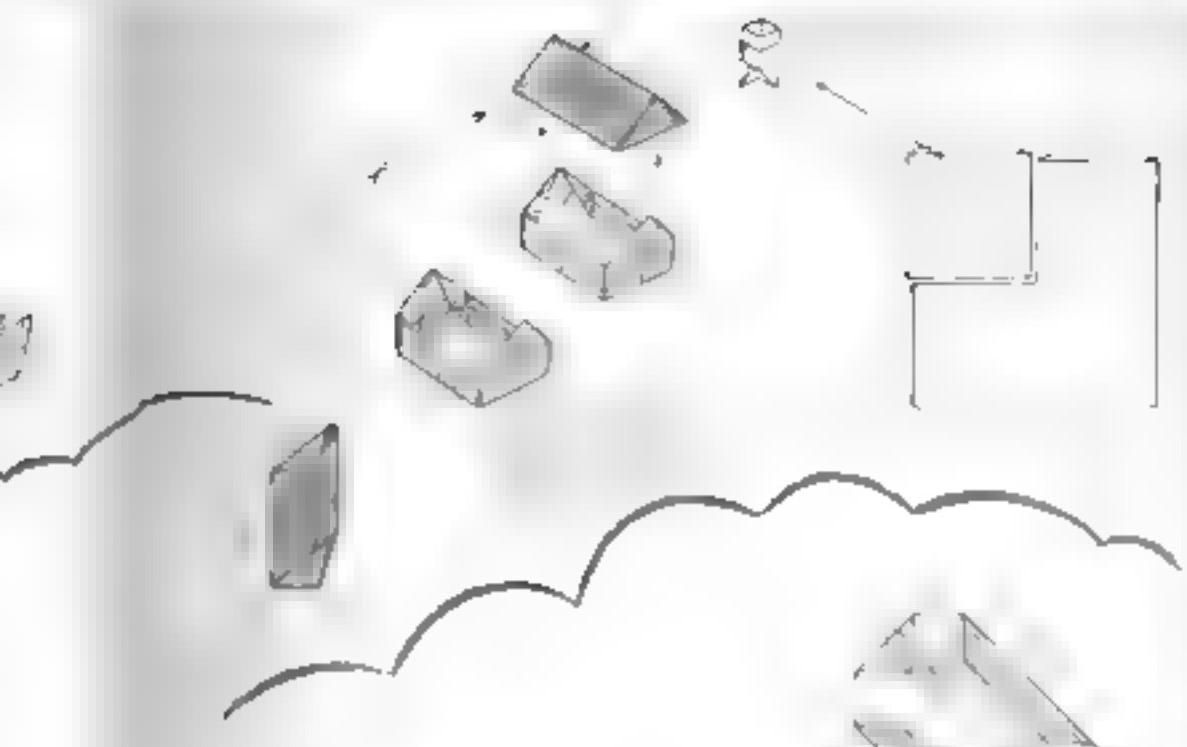
Tree VI



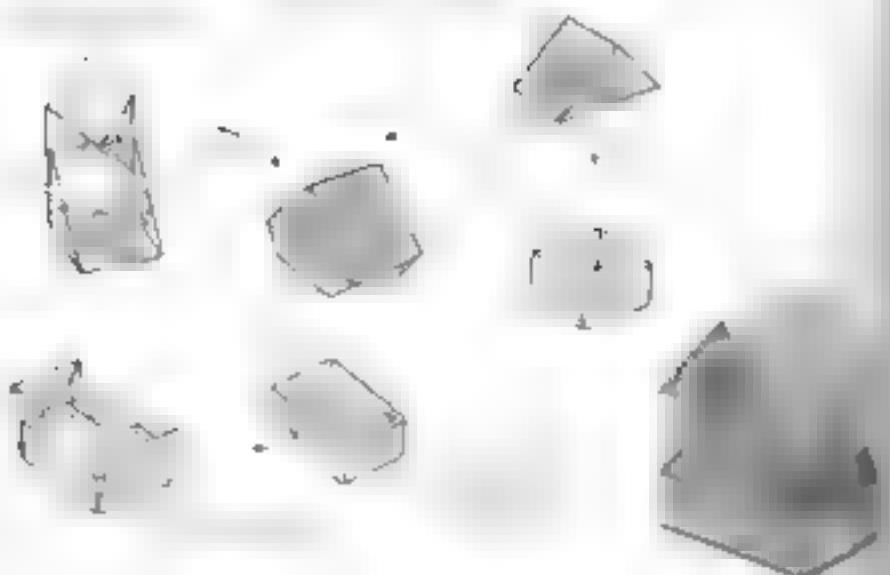
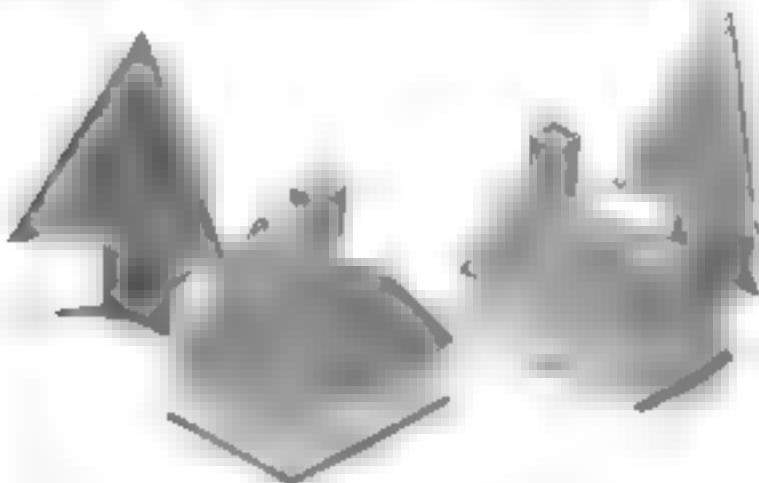
Why the design is high-class?
House (rectangular box)

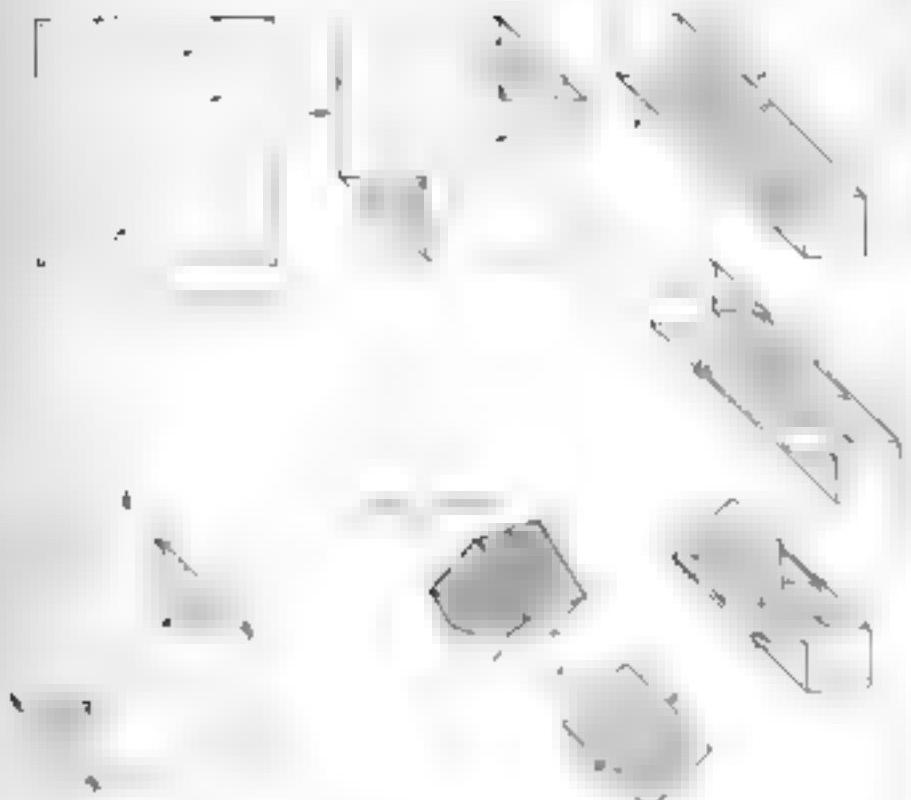






Which House Is More Spacious?





Two new rectangular lids

Our Town

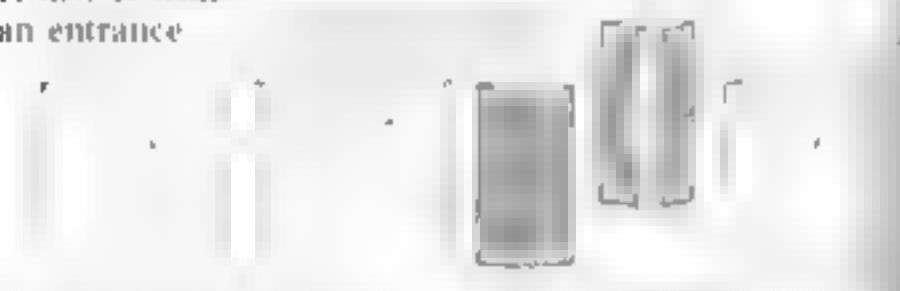
A
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Y
Z



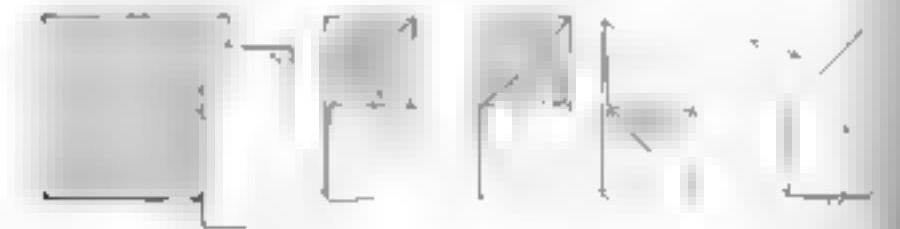
**House A
with a window**



**House B with
an entrance**



**House C with a window
and an entrance**

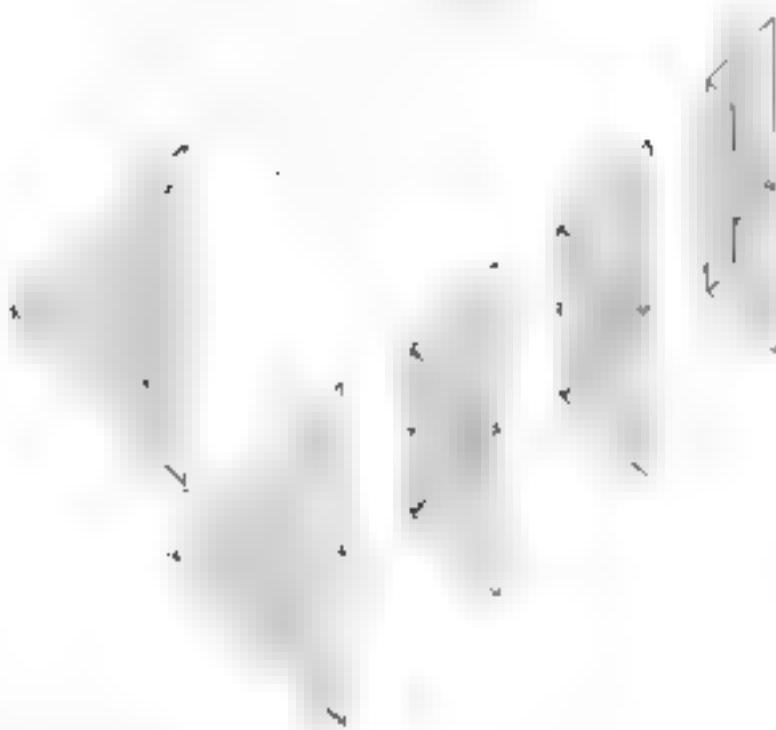




Fascinating Origami Aircraft



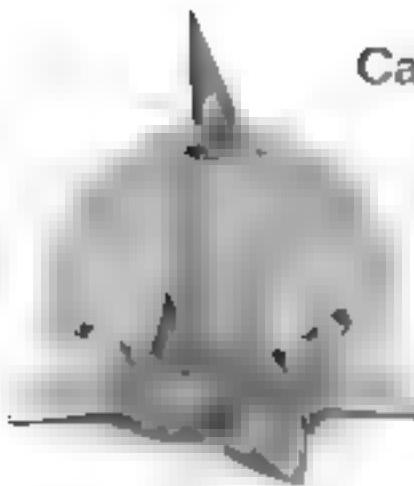
Hang-glider I



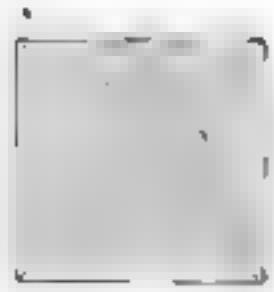


Hang-glider II

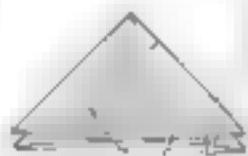
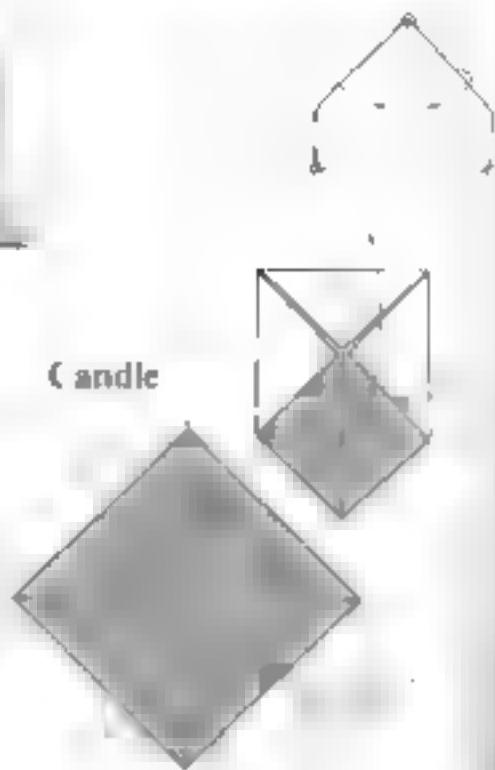
Candle and Candlestick



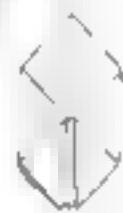
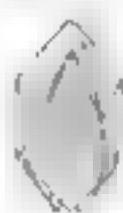
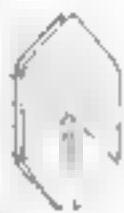
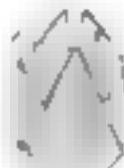
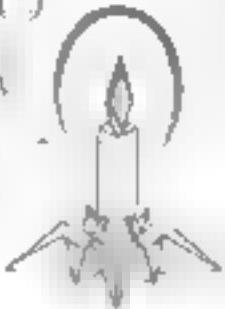
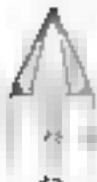
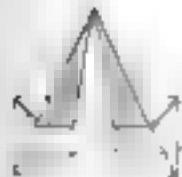
Candlestick



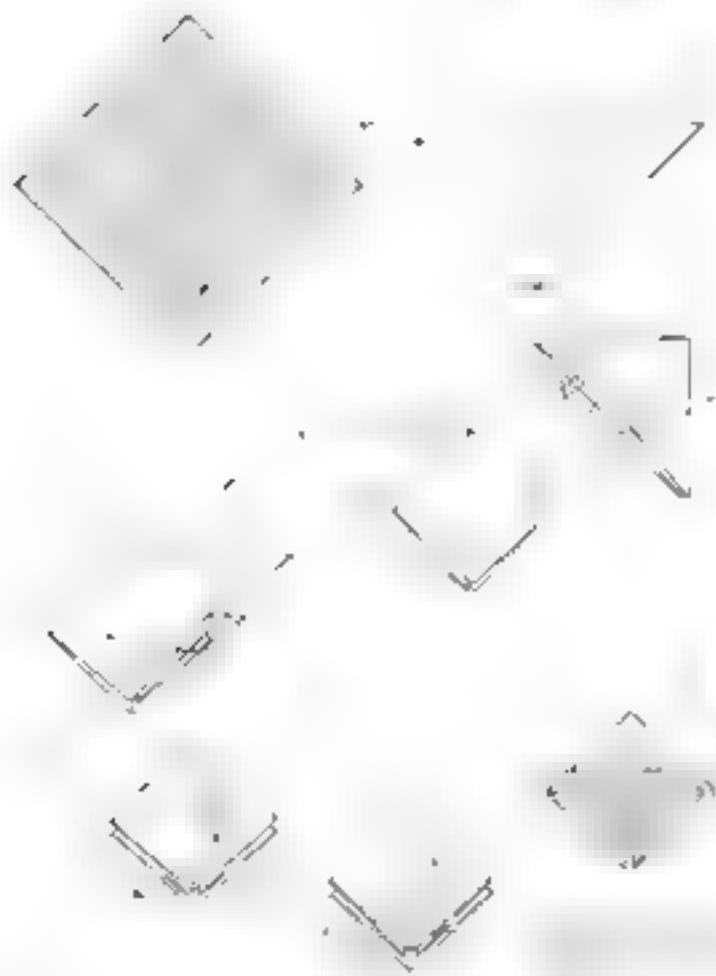
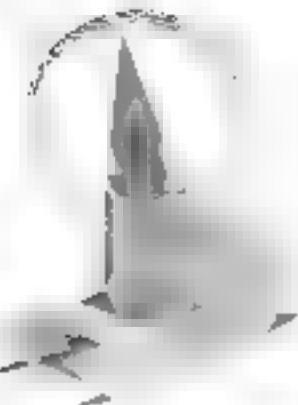
Candle

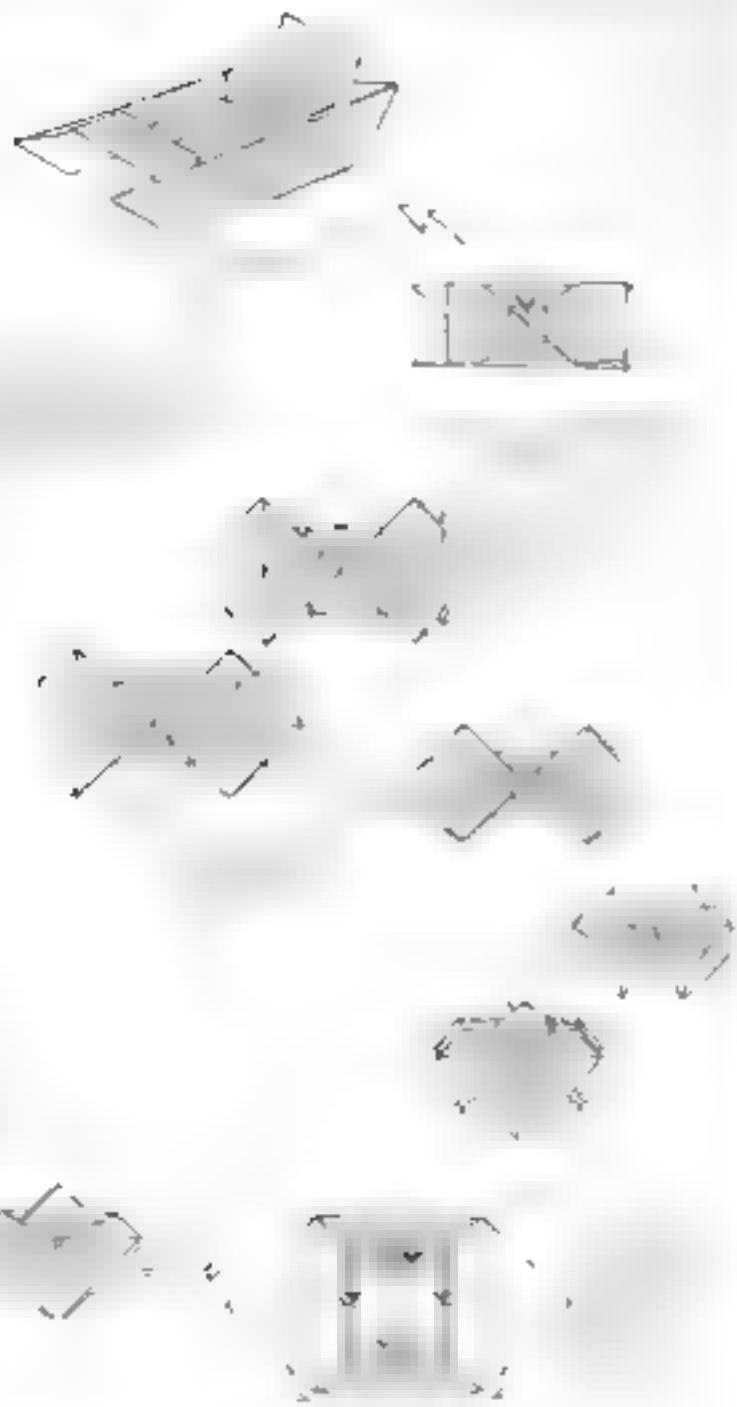


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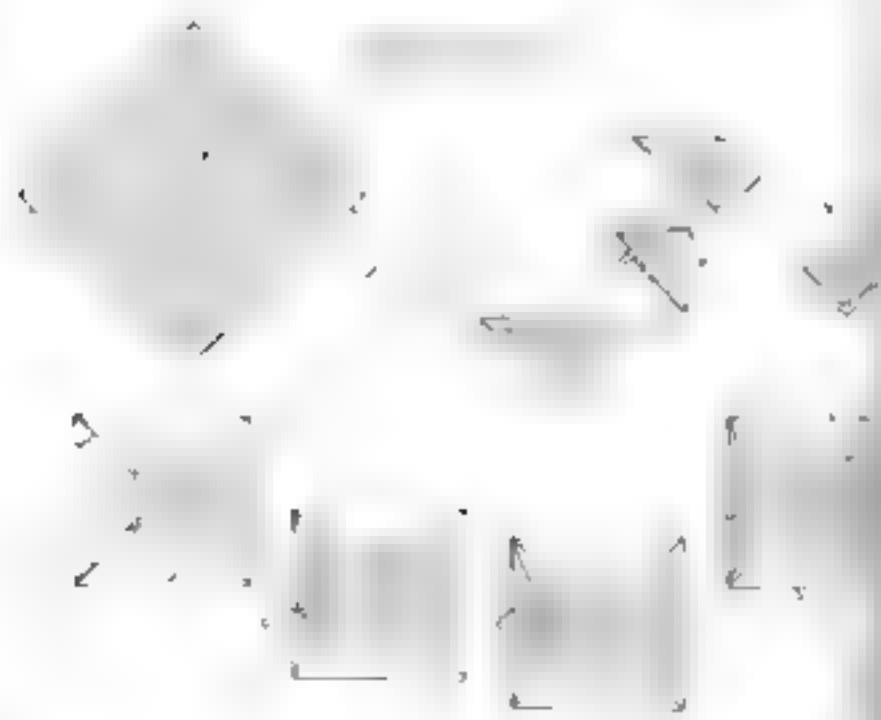
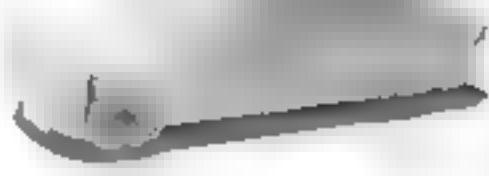


Sleigh



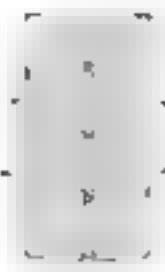
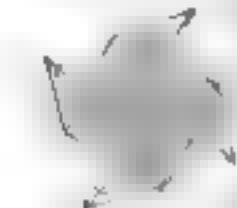
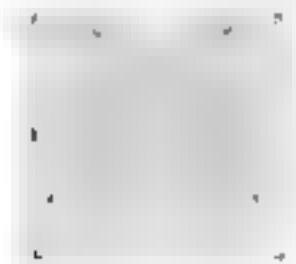
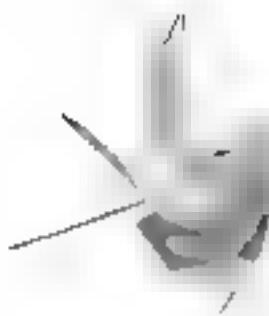


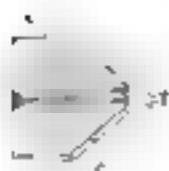
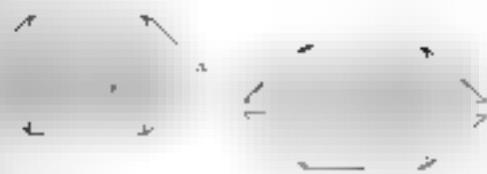
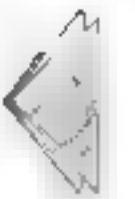
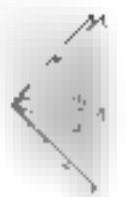
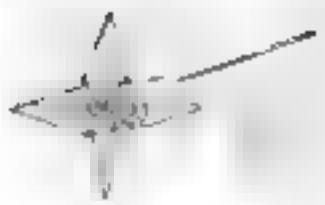
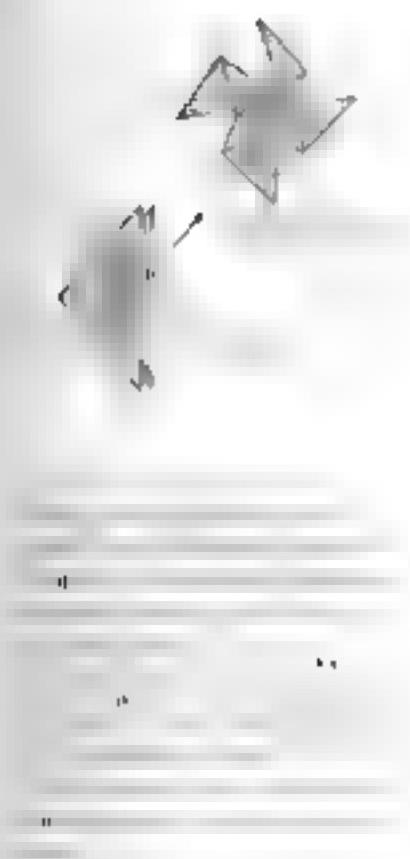
Automobile



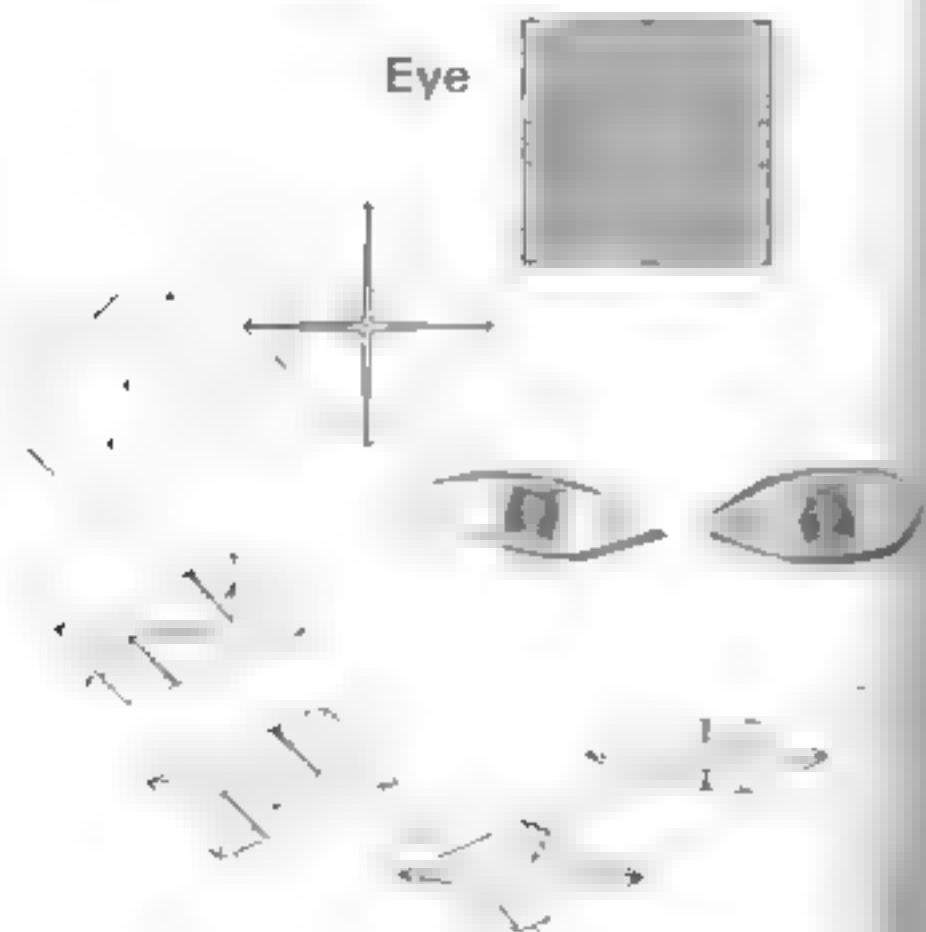


Pinwheel





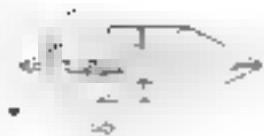
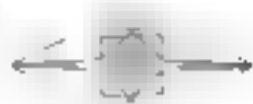
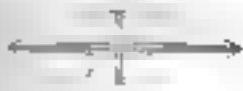
Mr Chino's Sense of Humor



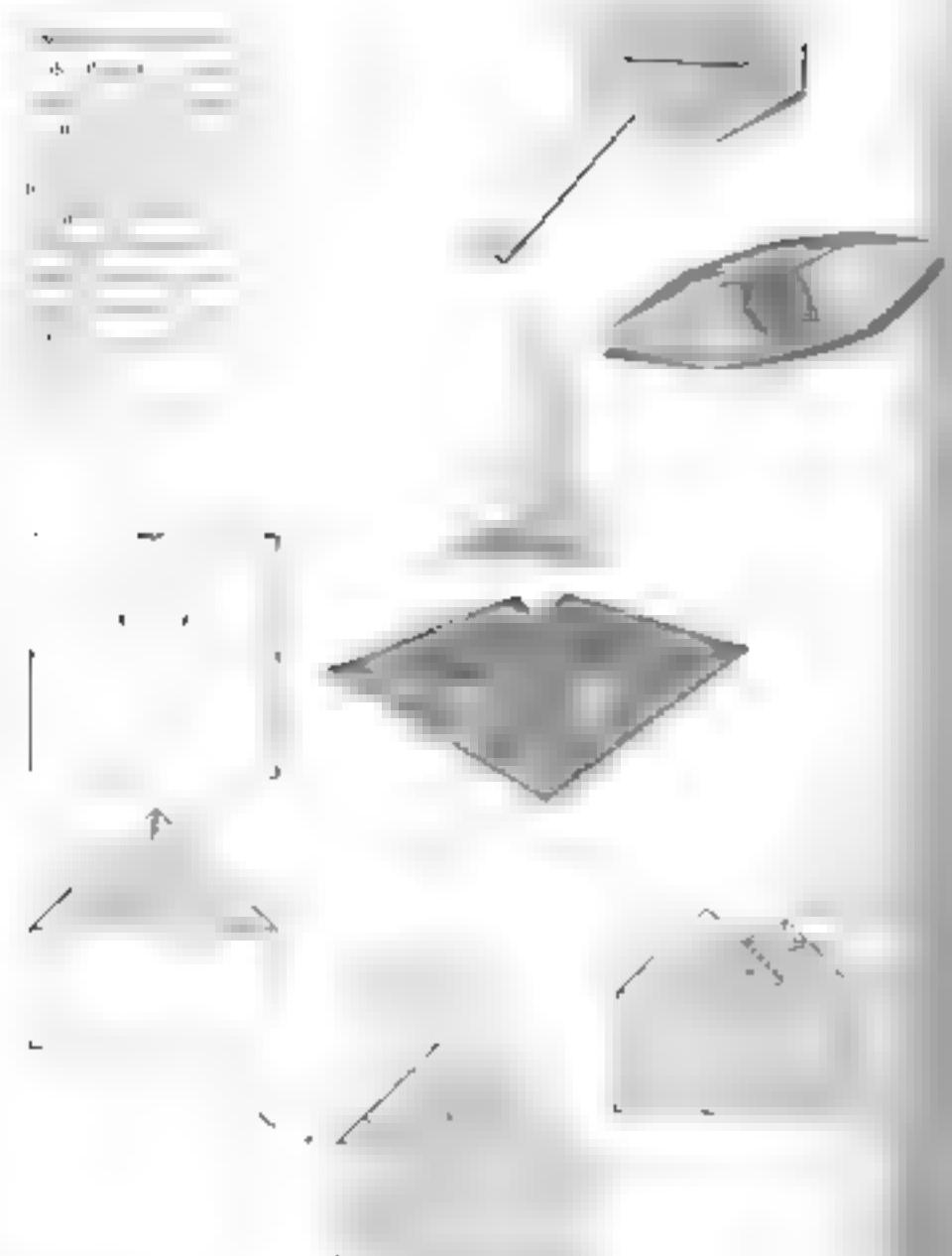
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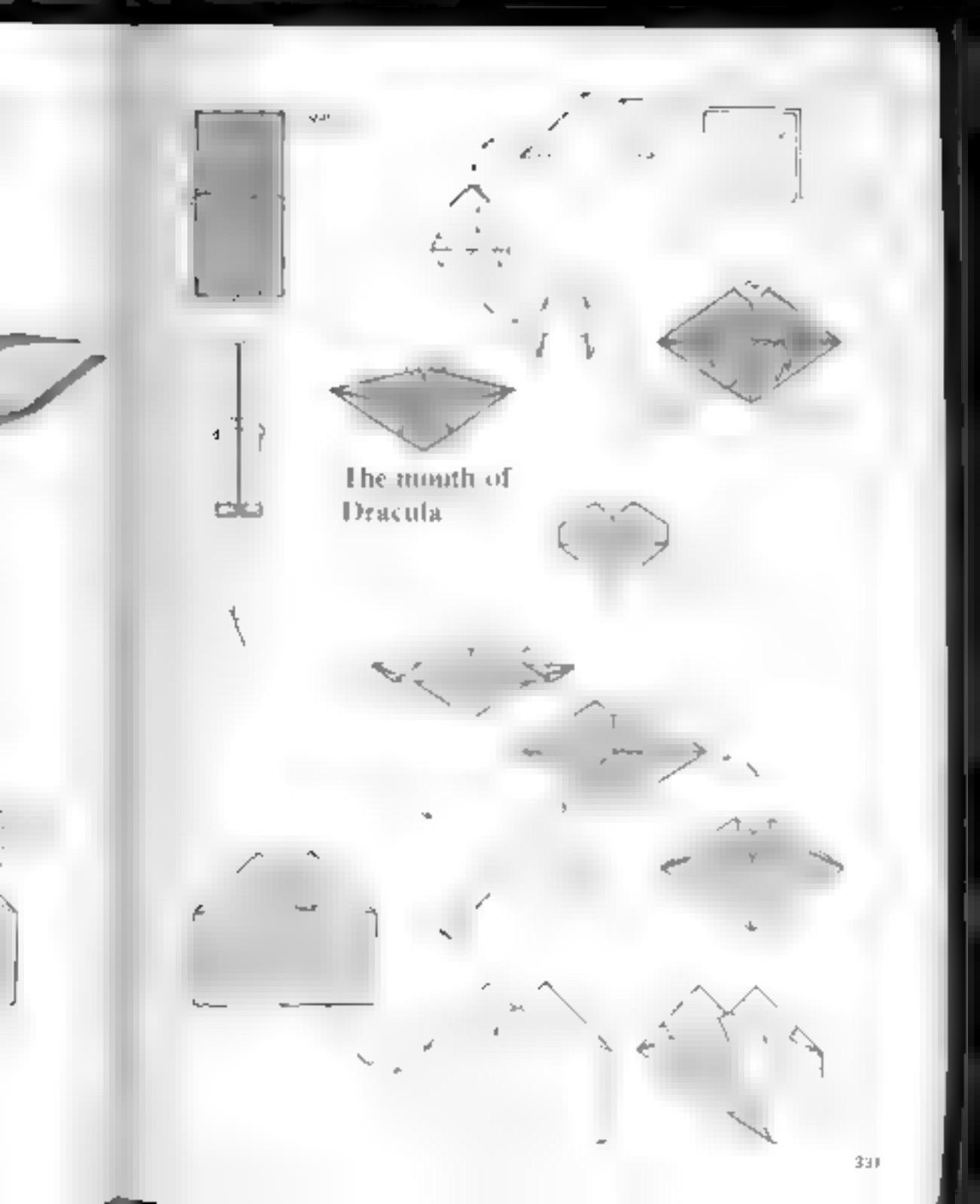
— d — M —
— w —

Sail



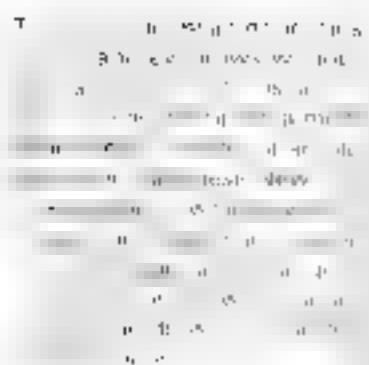
Lips



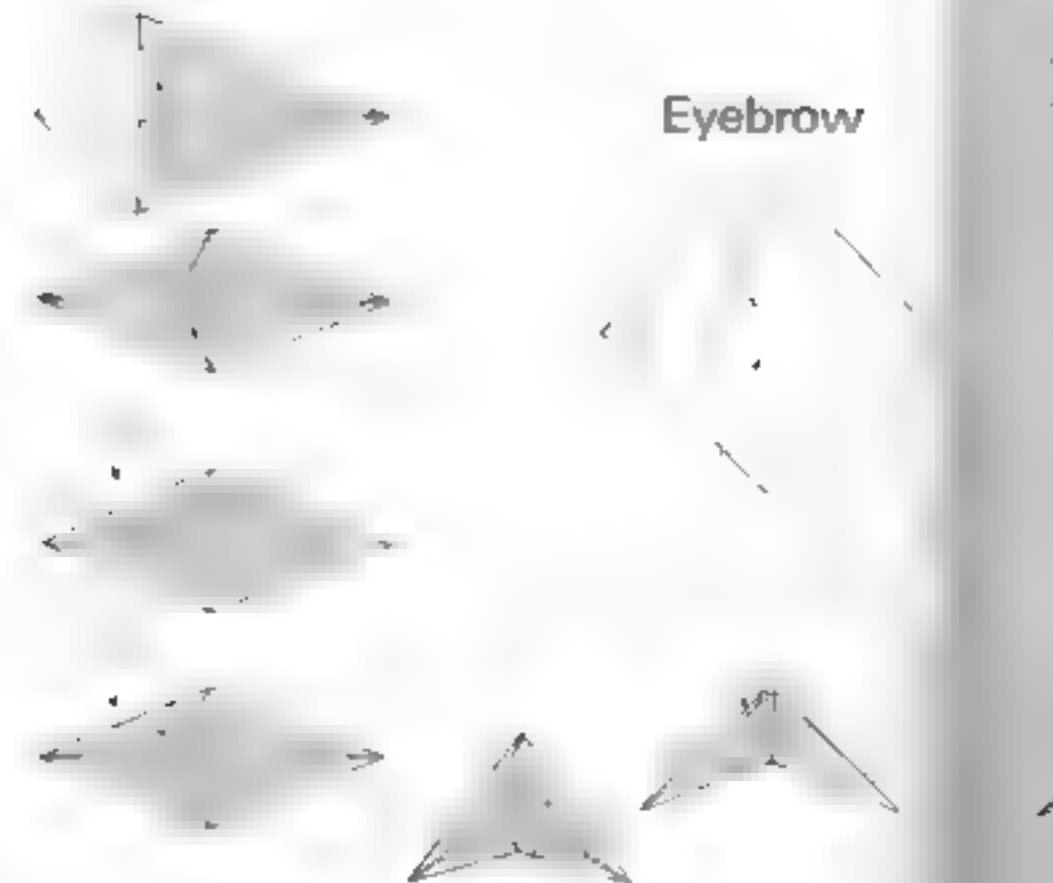


The mouth of
Dracula

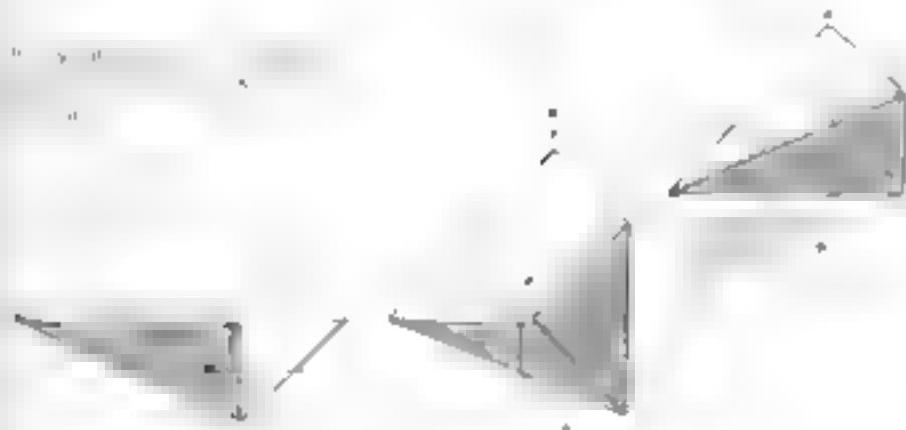
Mustache



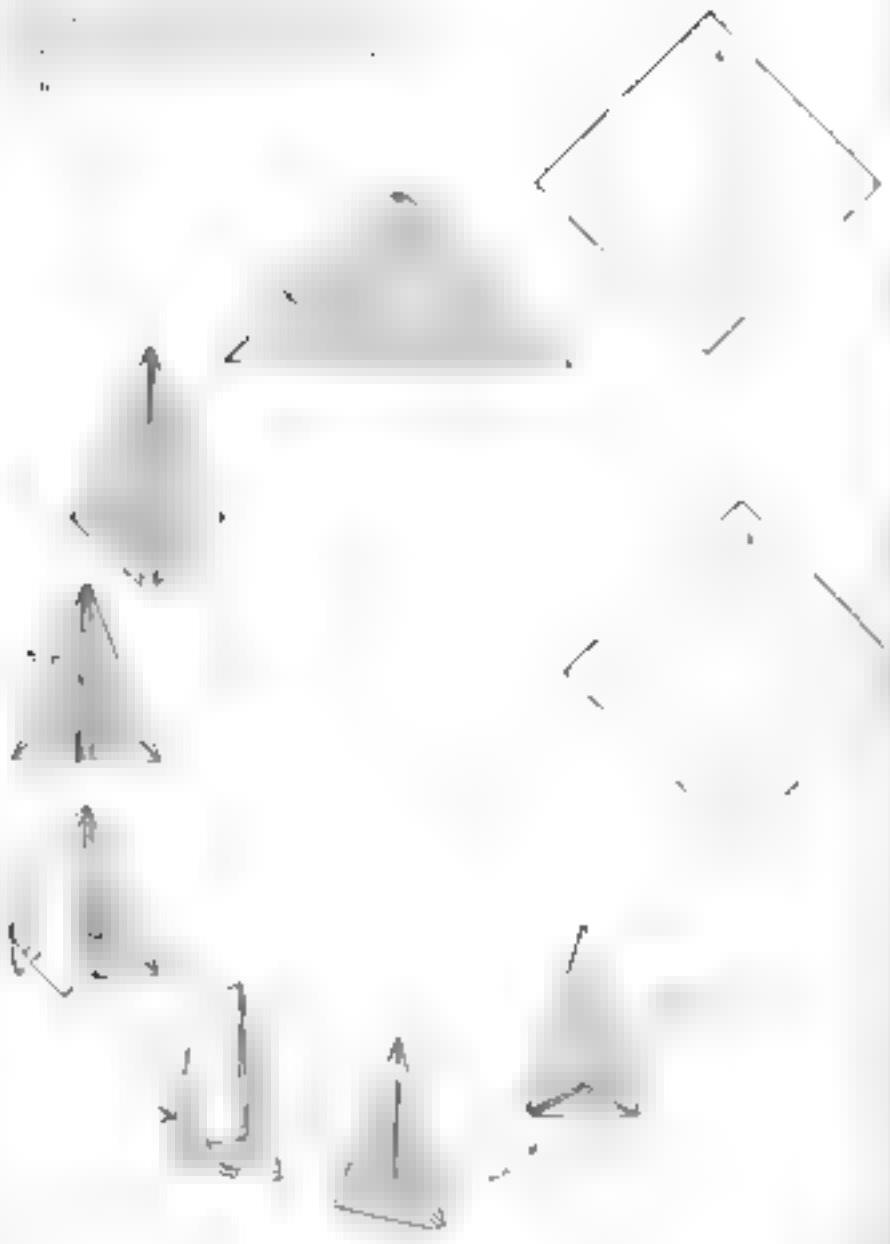
Eyebrow



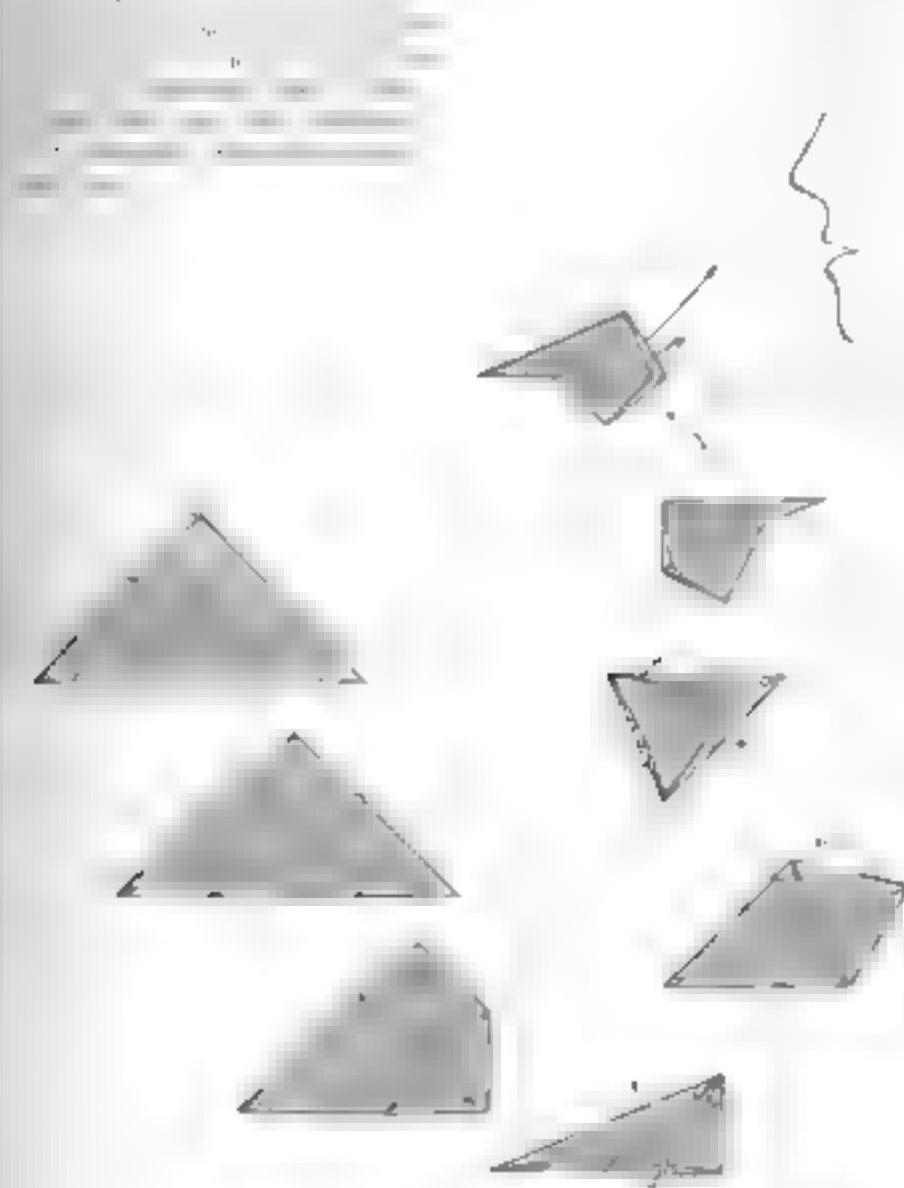
Witch Claws



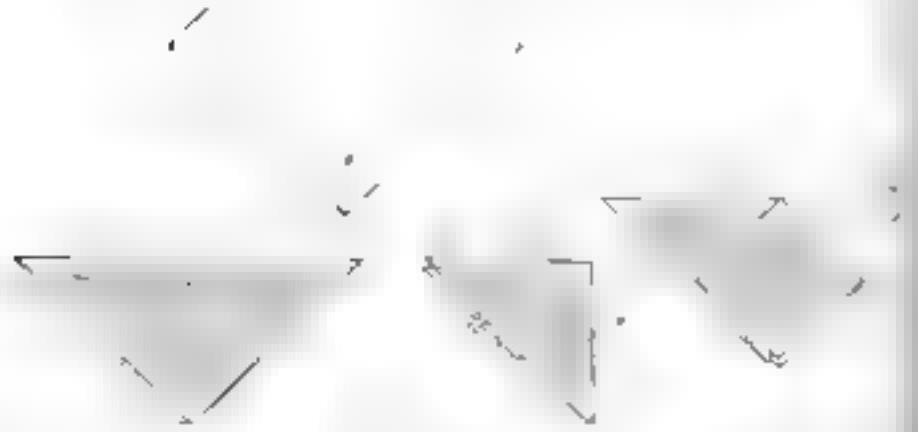
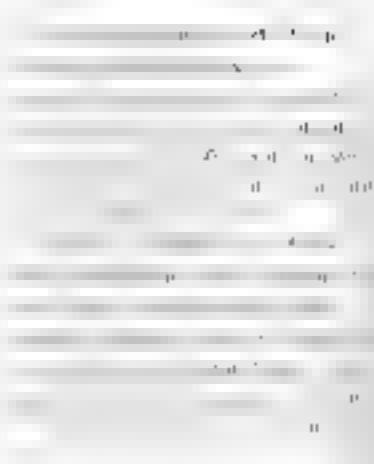
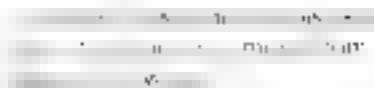
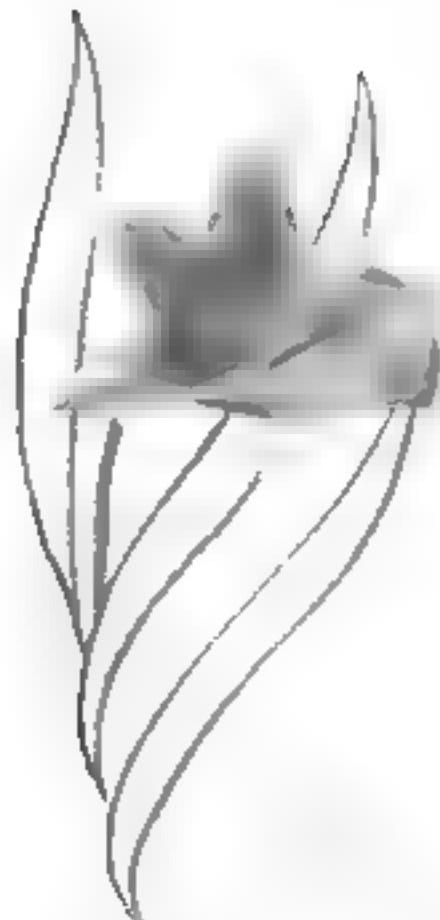
Nose

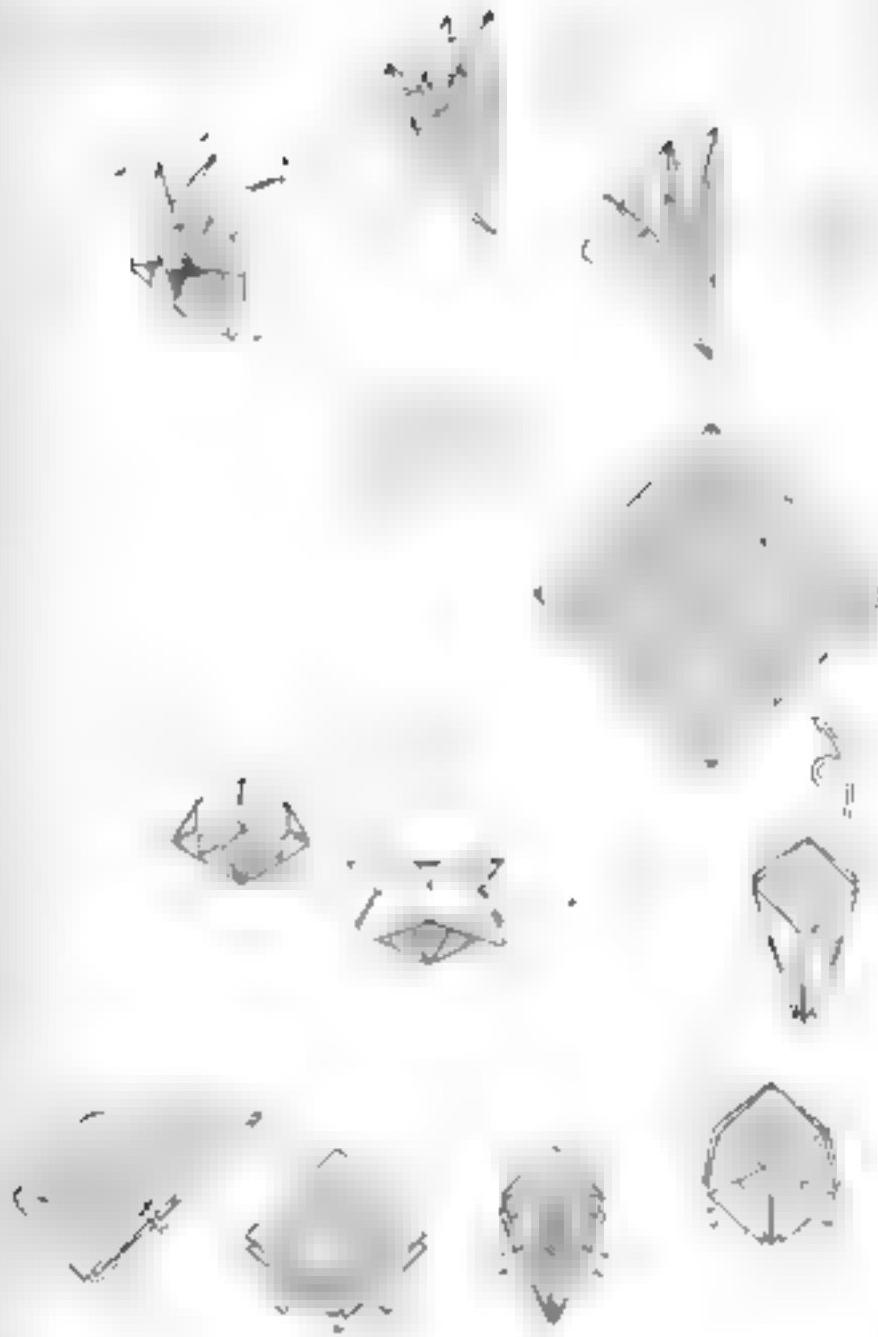


Pinocchio Nose (or Bird Beak)

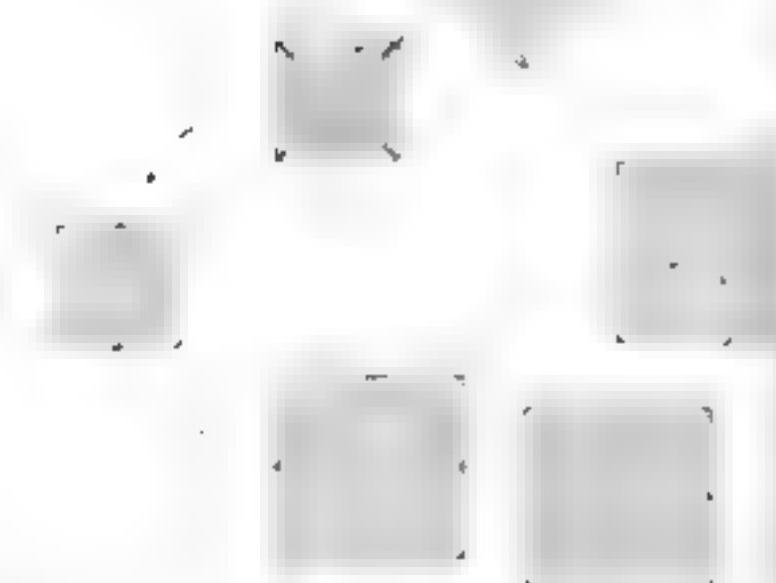
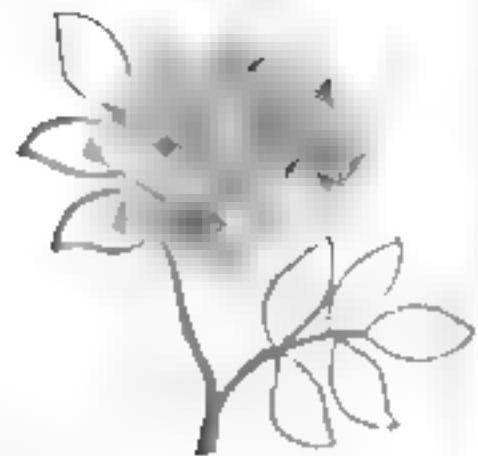


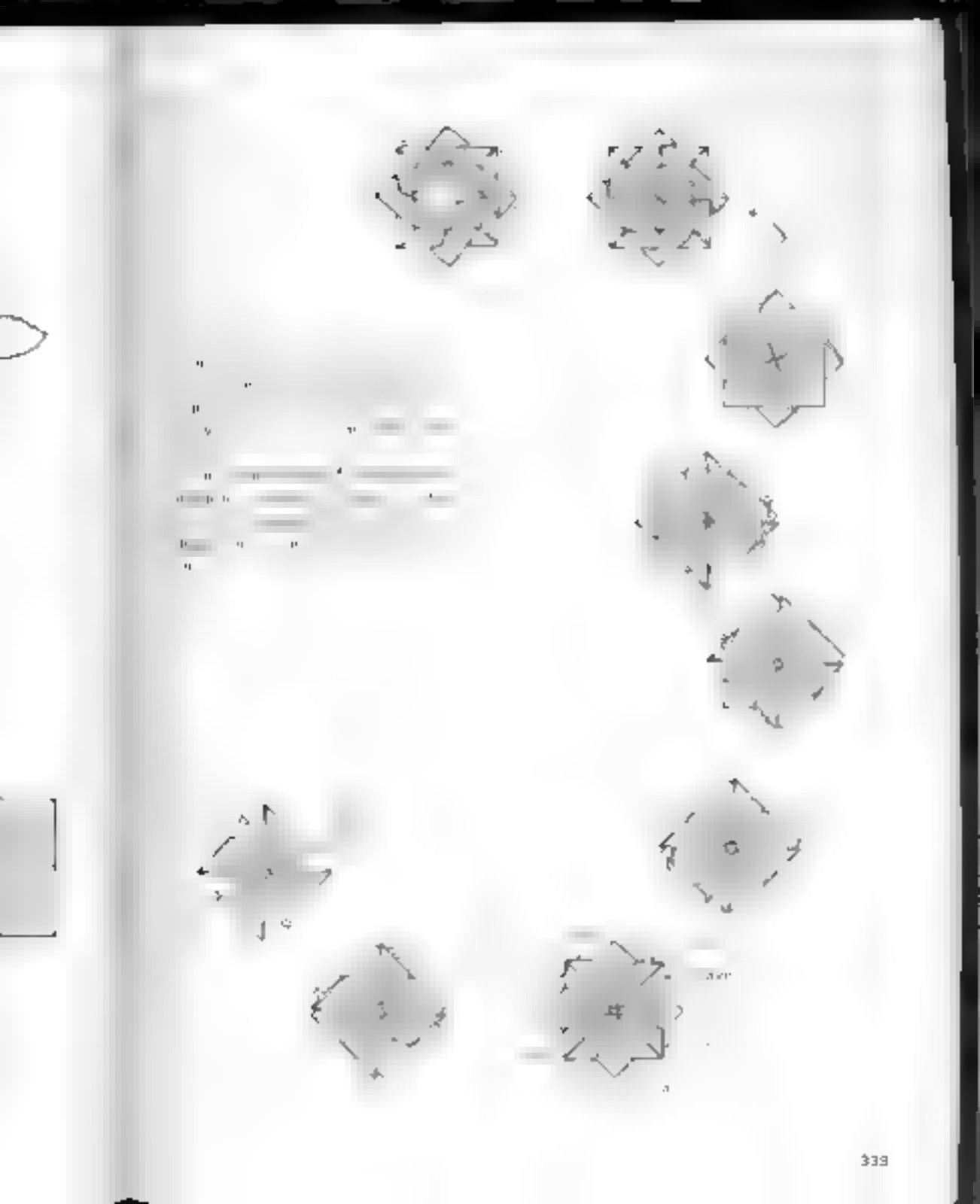
Cattleya



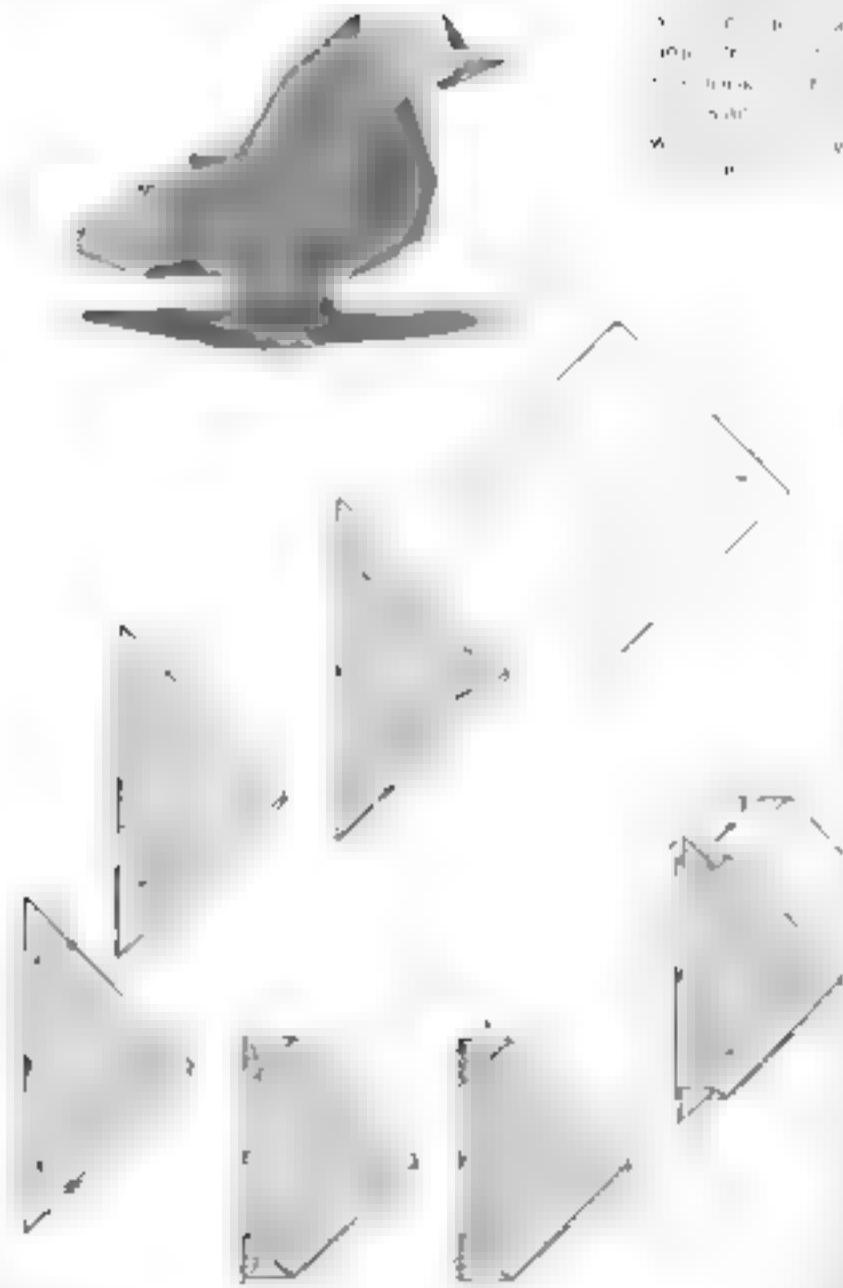


Rose



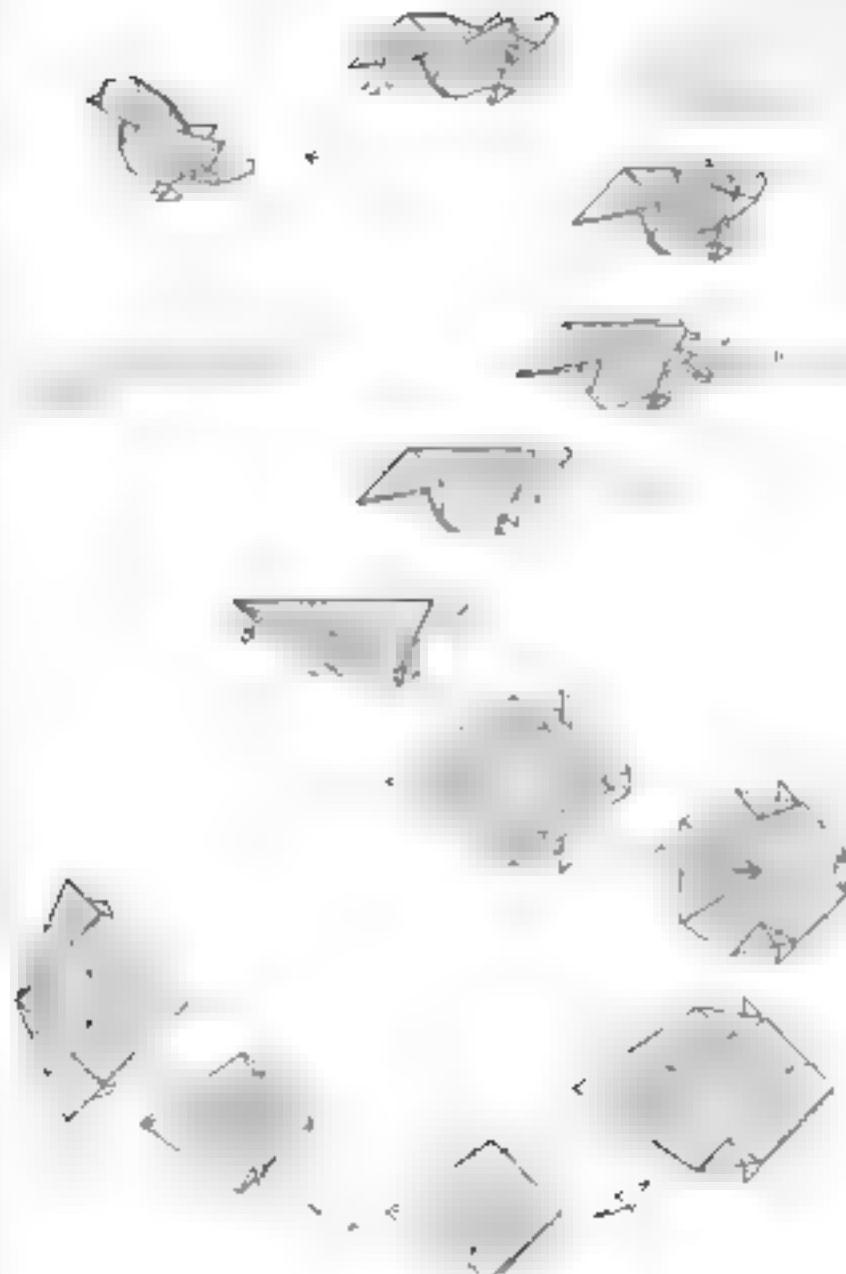


Sparrow



SPARROW
Passer domesticus
Linnæus
Length 5 in.
Habits & food: Found in towns & villages throughout the country. Feeds on insects, seeds, and grain.

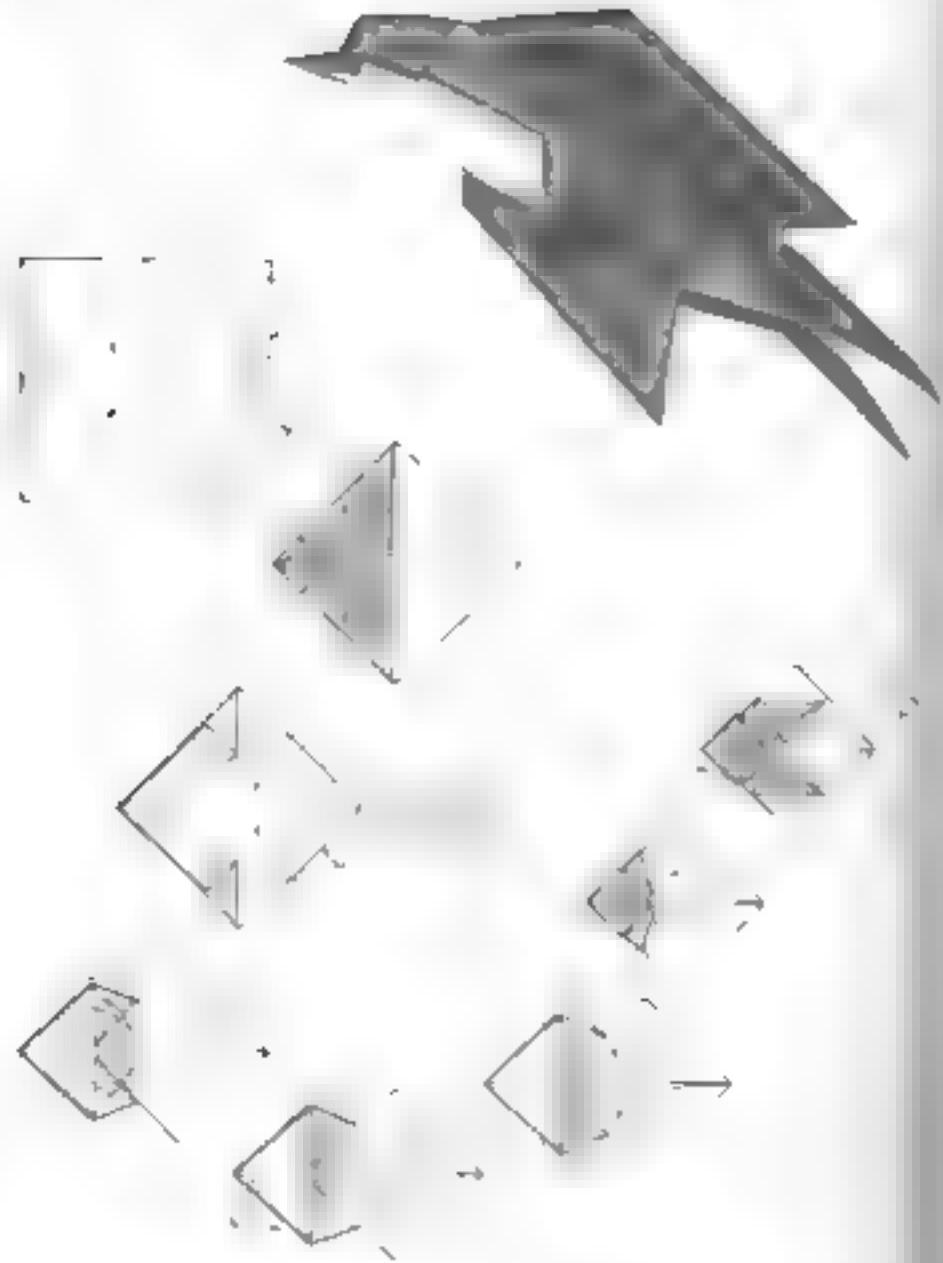
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1. 0.05
2. 0.1
3. 0.15
4. 0.2
5. 0.25
6. 0.3

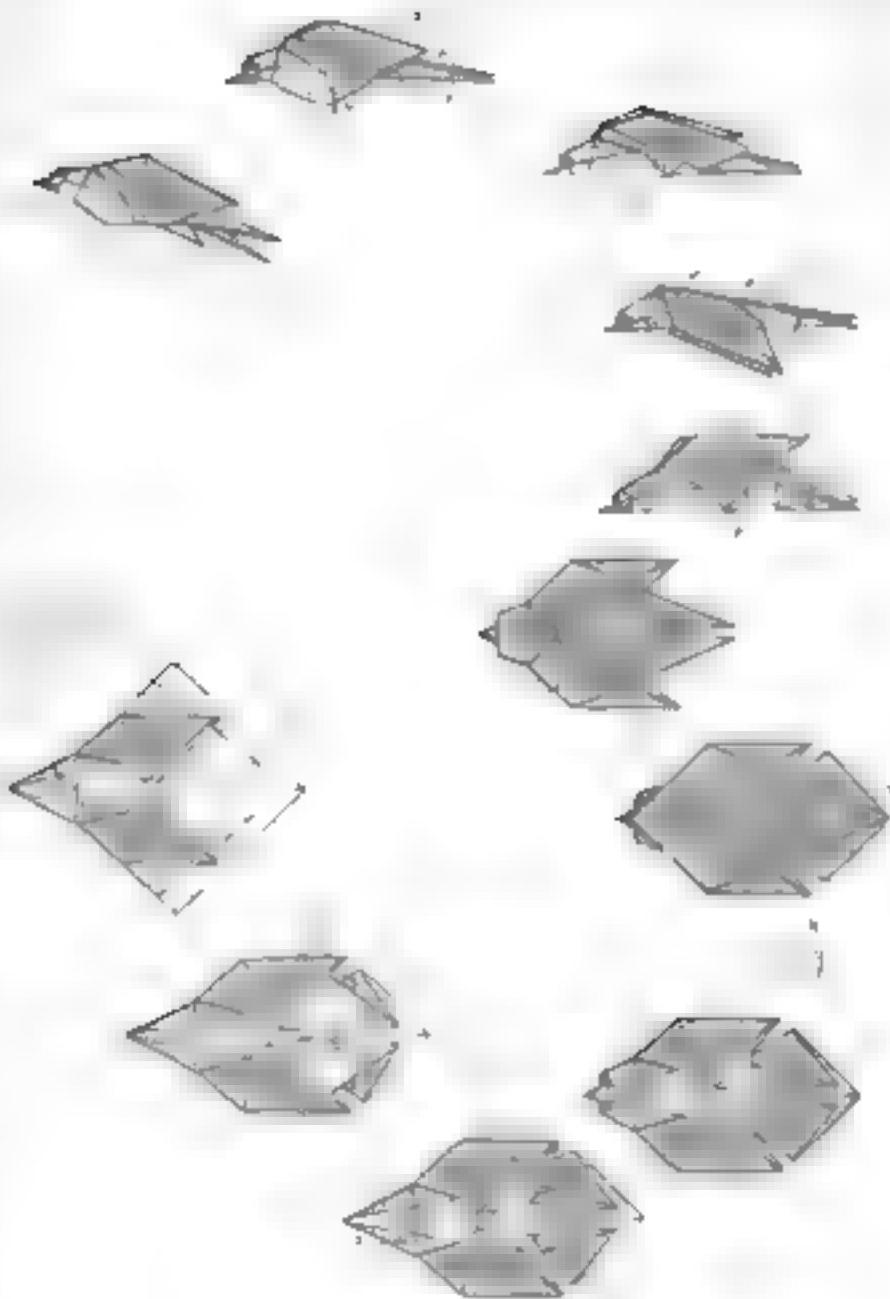


Duck



Swallow

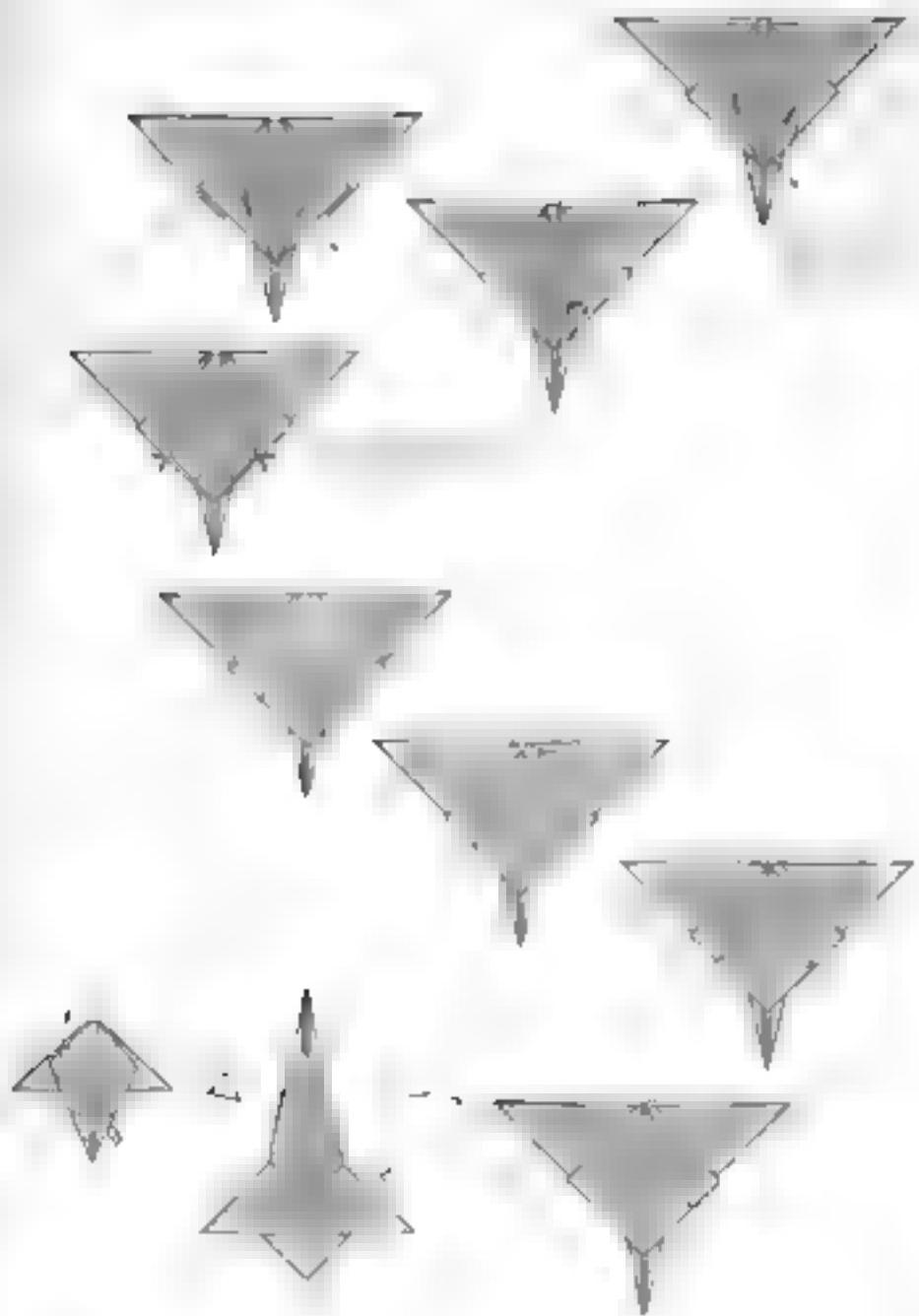




Cormorant with Outstretched Wings



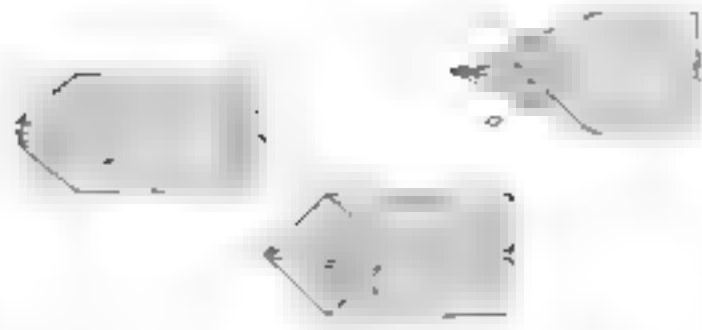
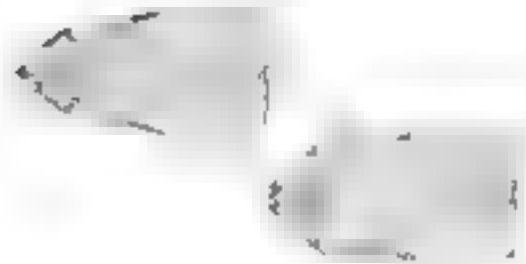
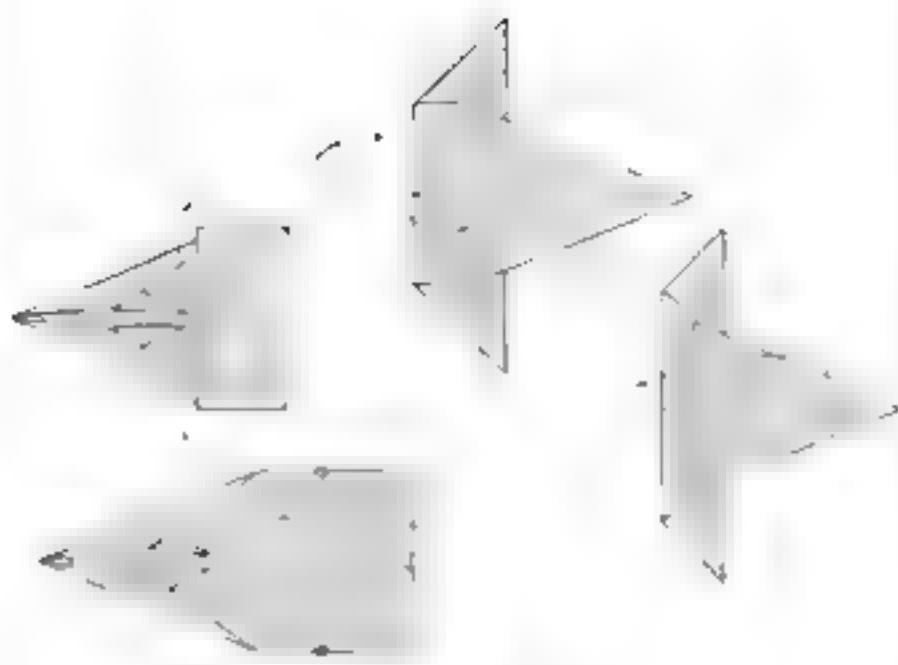
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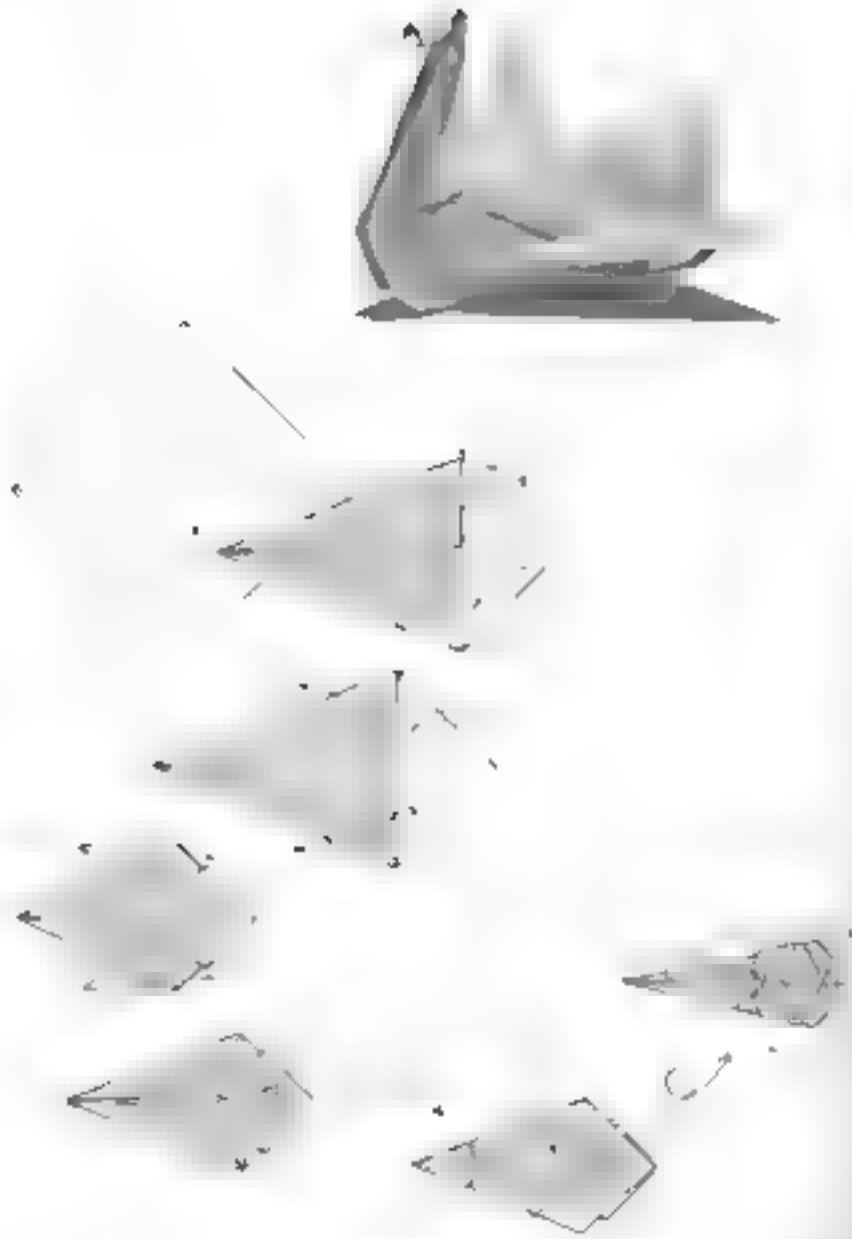


Eagle





Swan



Human prefrontal cortex

obligatory brain damage

memory function impaired

deficits in executive function

difficulties with planning

problems with working memory

problems with decision making

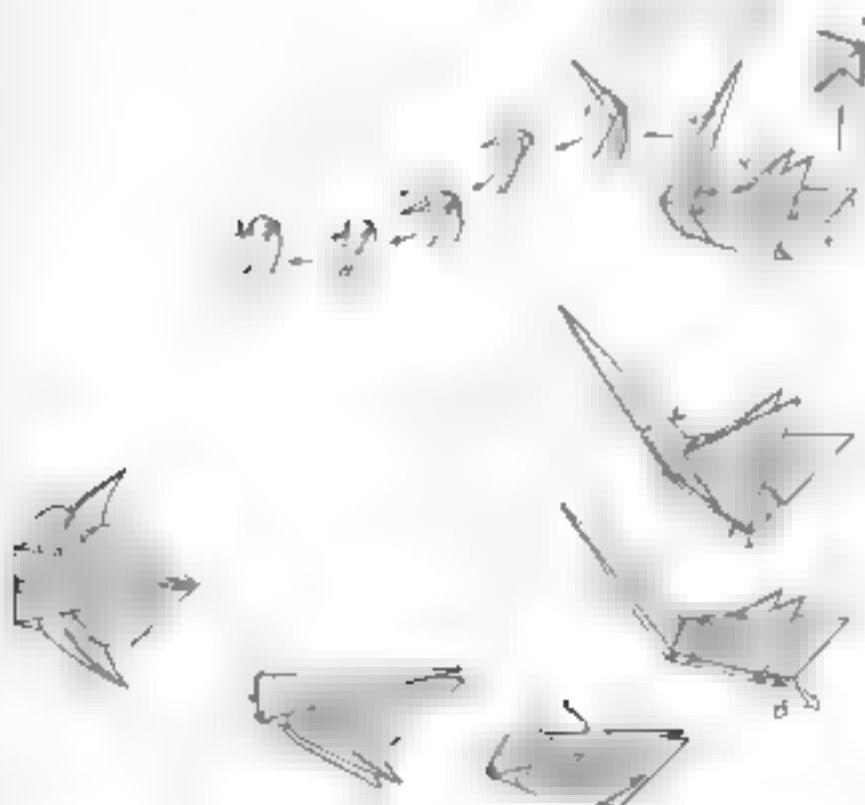
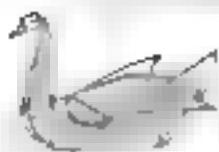
problems with problem solving

problems with executive control

problems with cognitive flexibility

problems with cognitive control

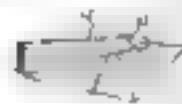
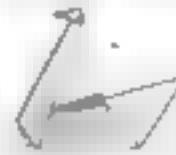
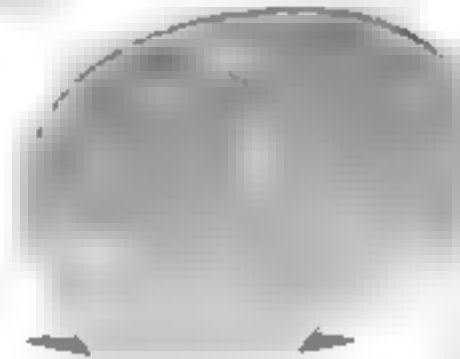
problems with cognitive control



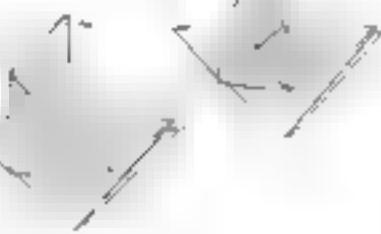
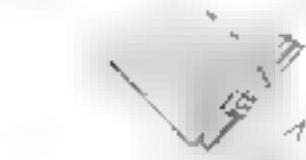
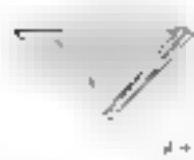
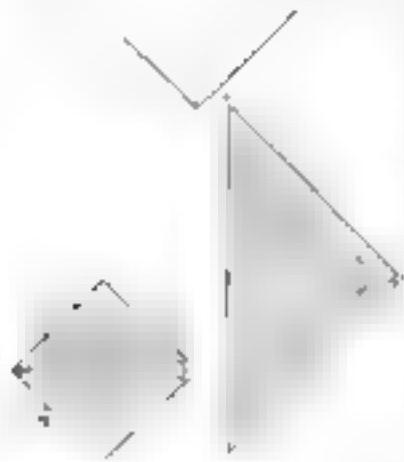
The Simple Splendor of Symbolic Forms

Ah, swan! How dost thou
In this region of light,
In this region of light,
How dost thou

Swan II



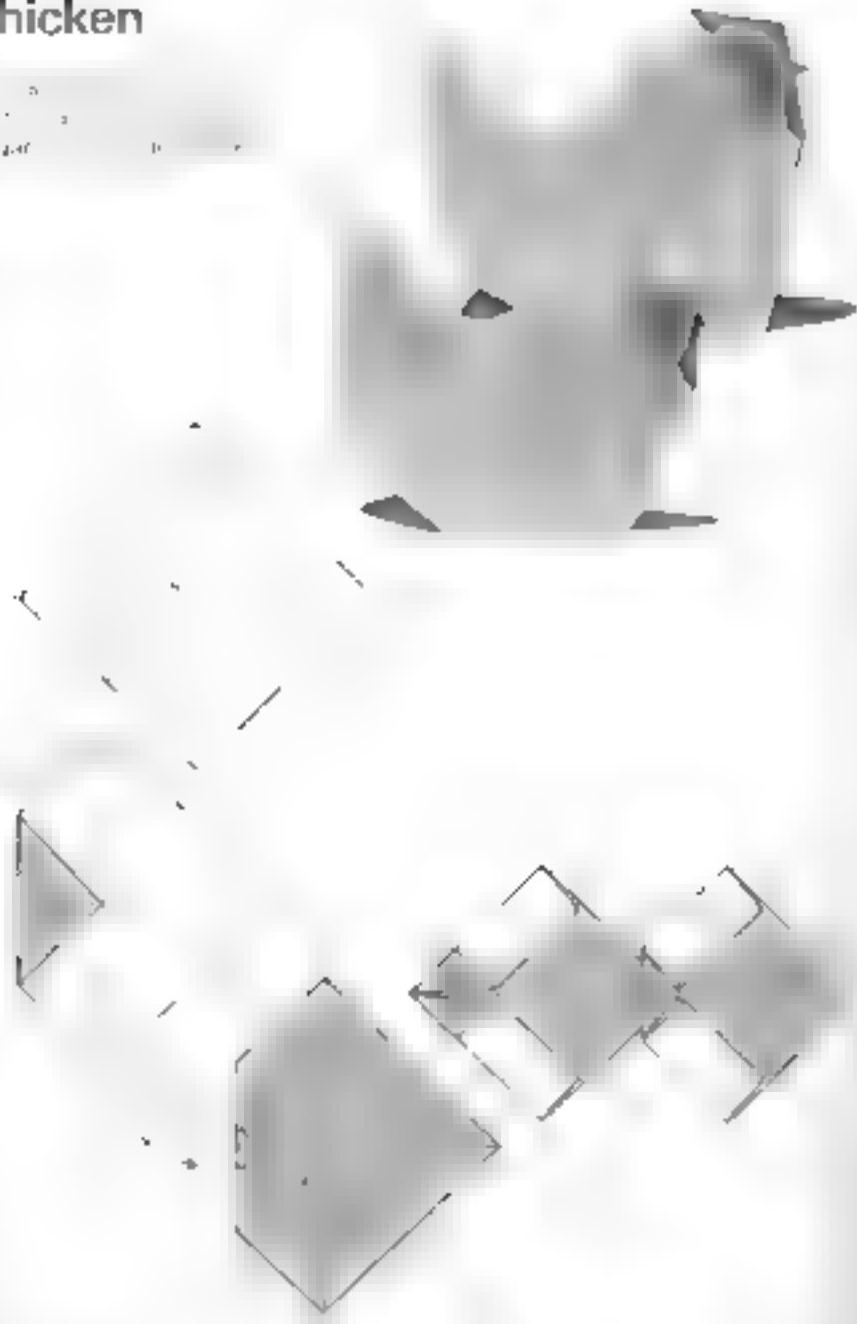
Dove

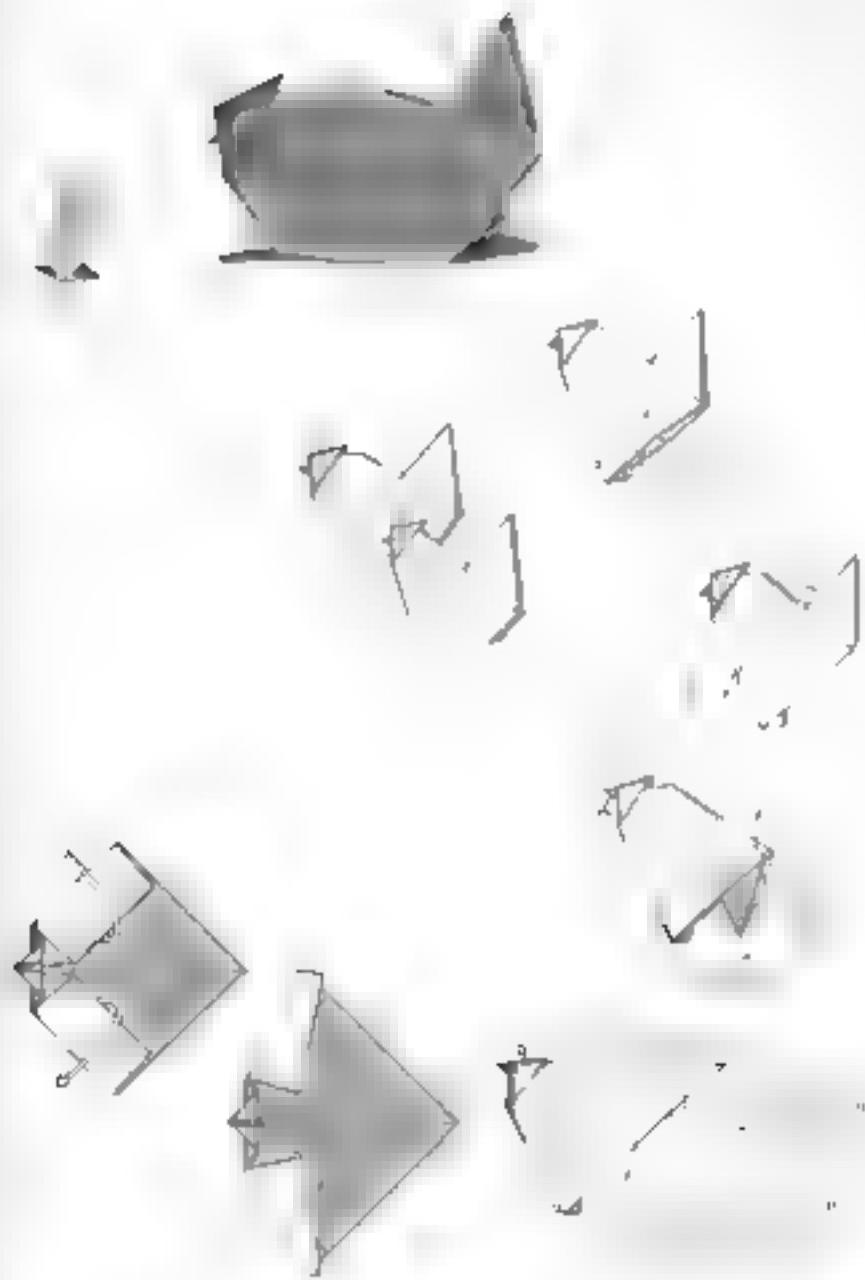


Peacock

Chicken

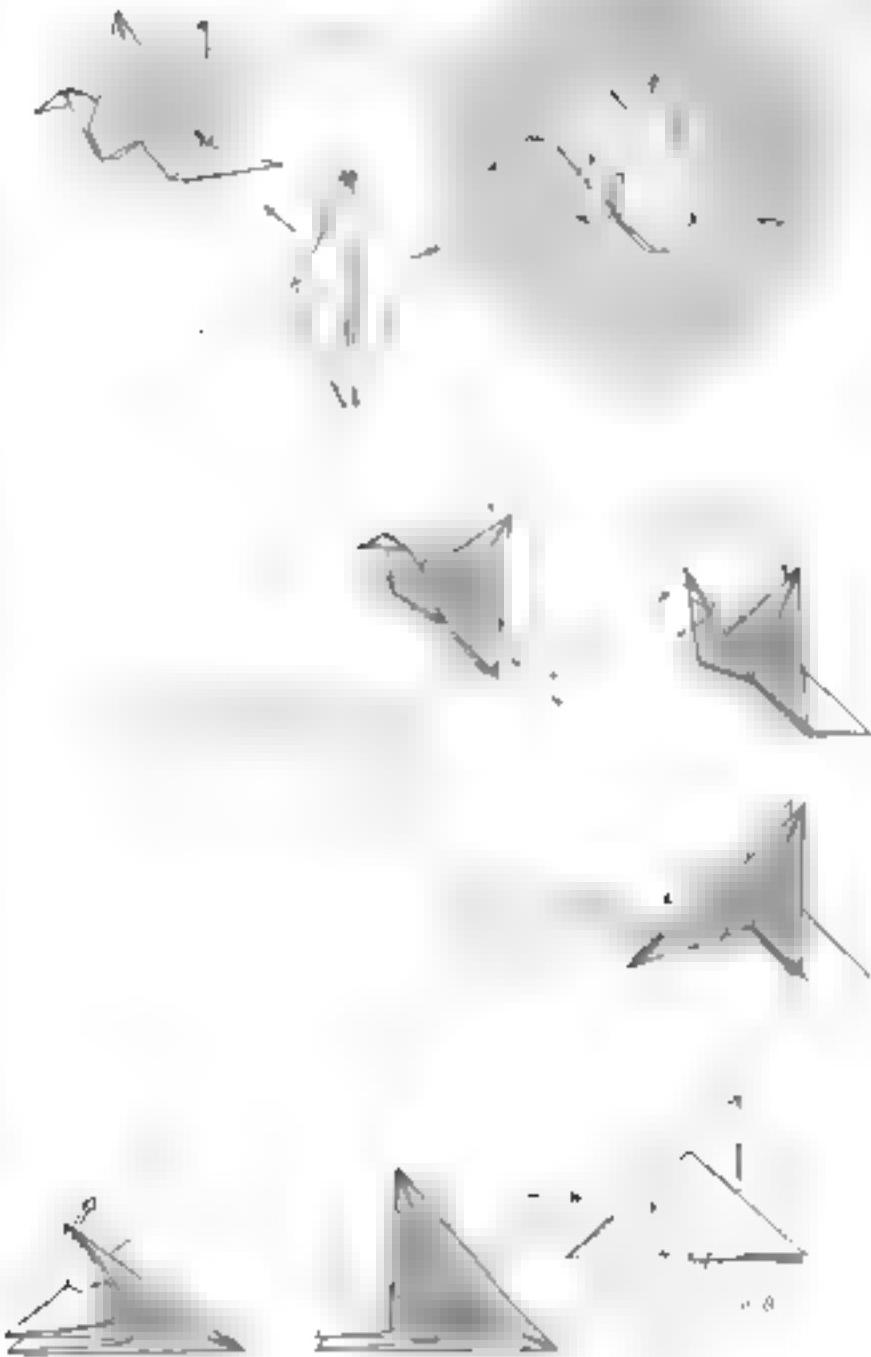
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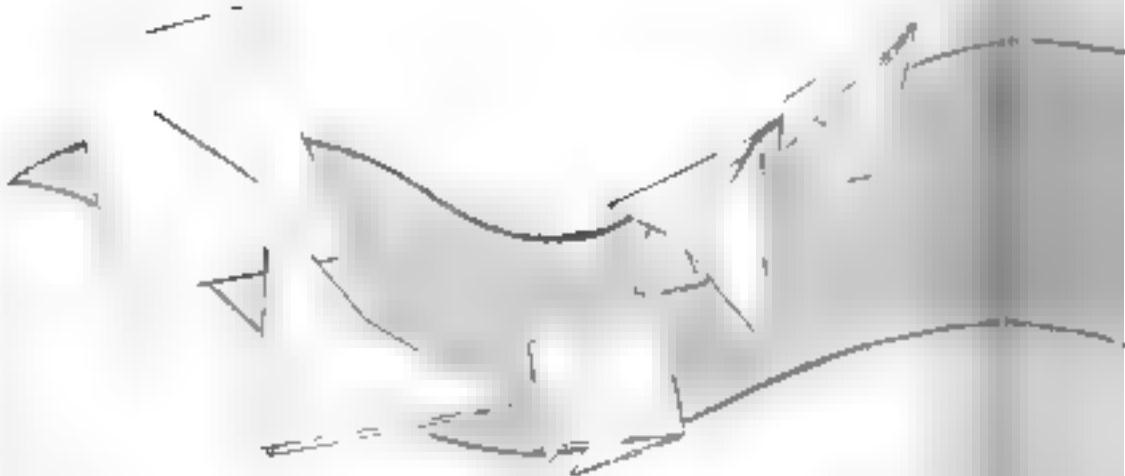
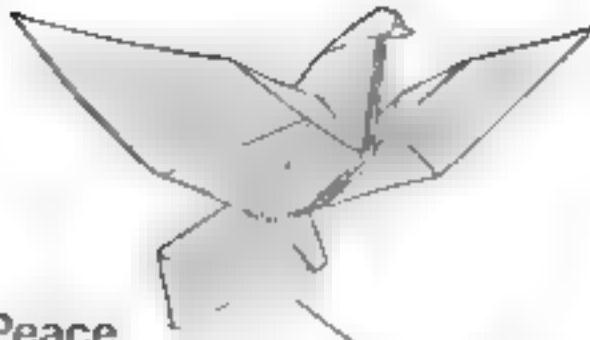


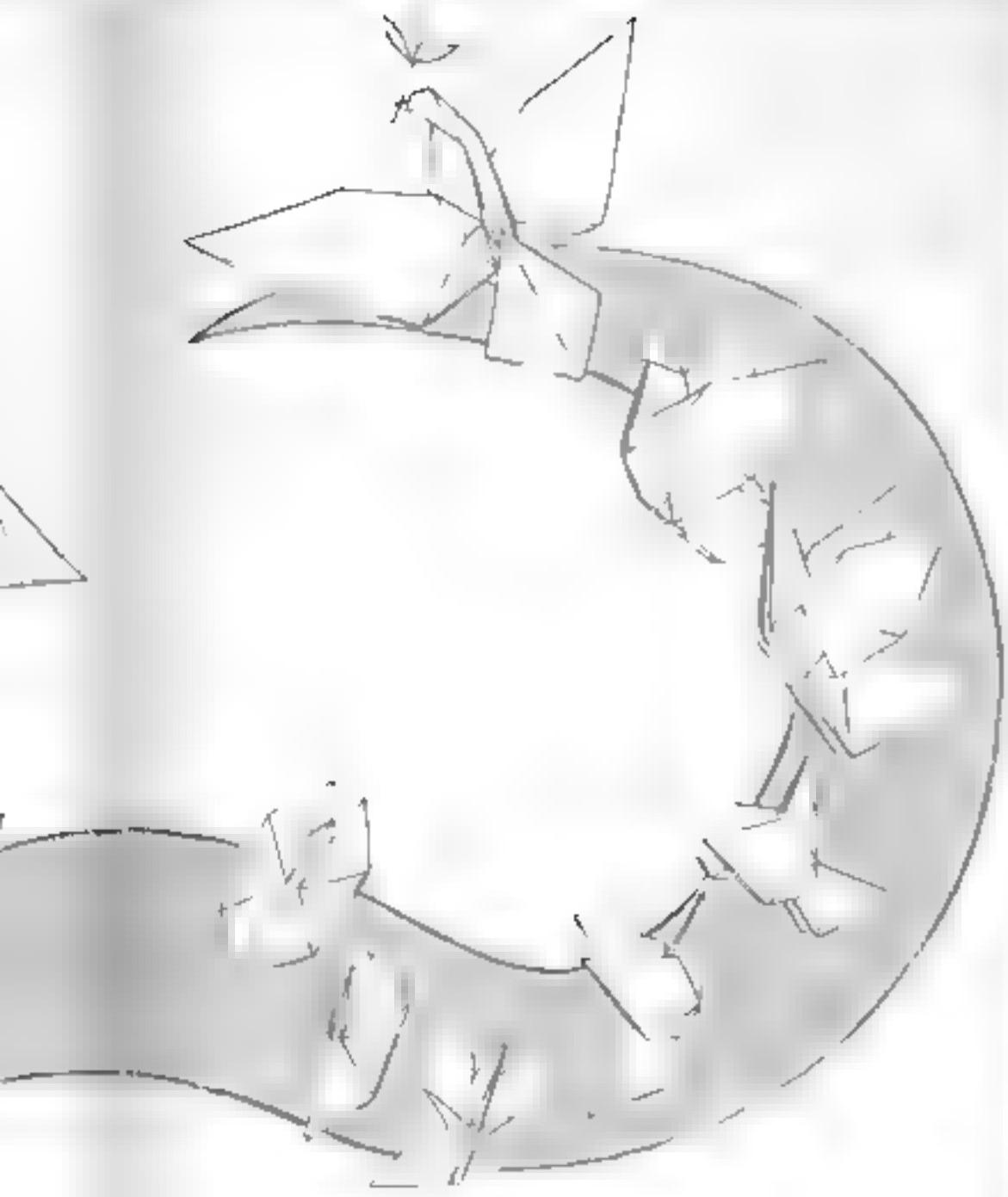
Fluttering Pheasant



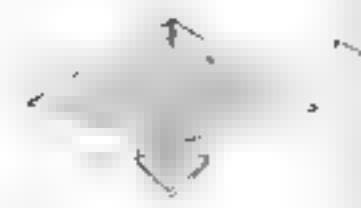
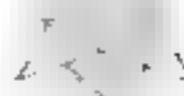
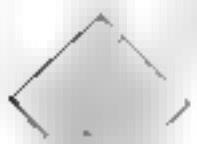
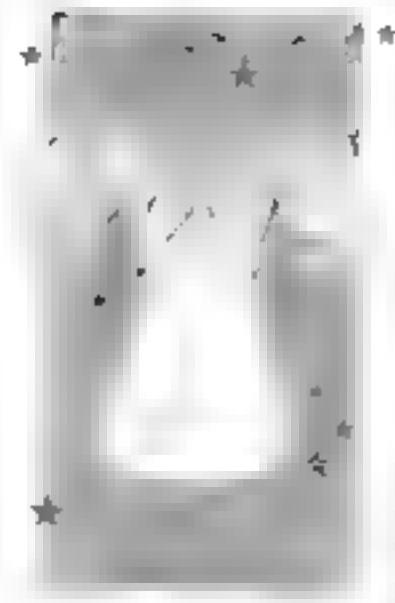


Dove of Peace

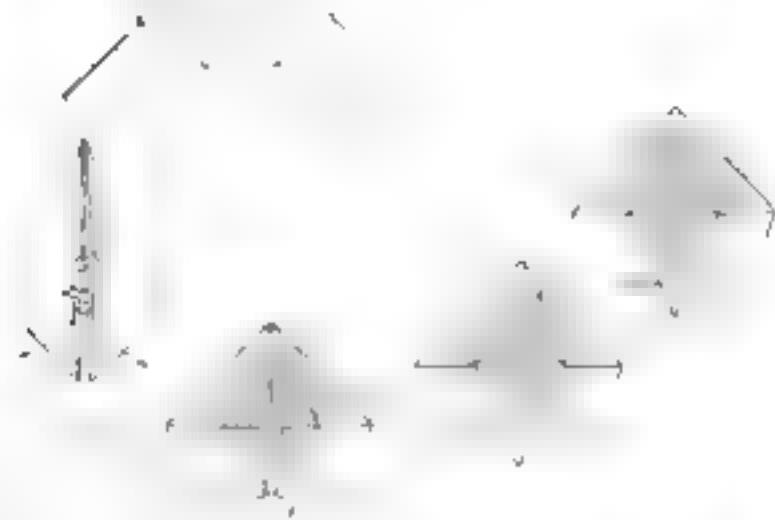
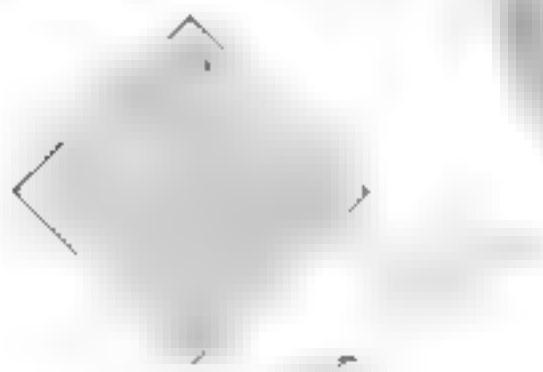
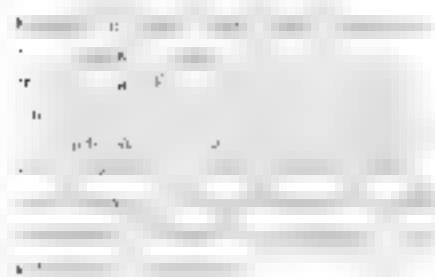




Angel



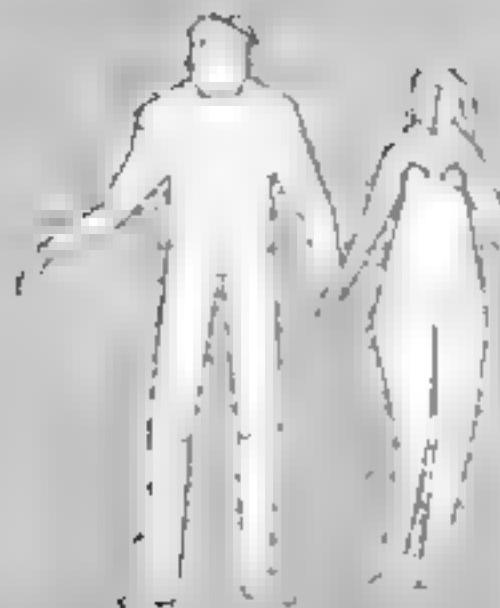
Pinocchio Mask



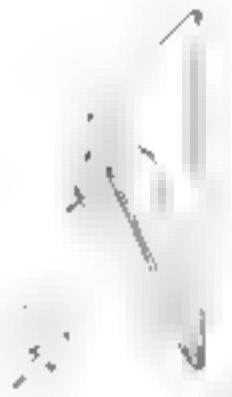
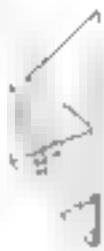
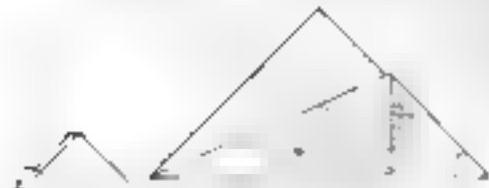
Adam and Eve

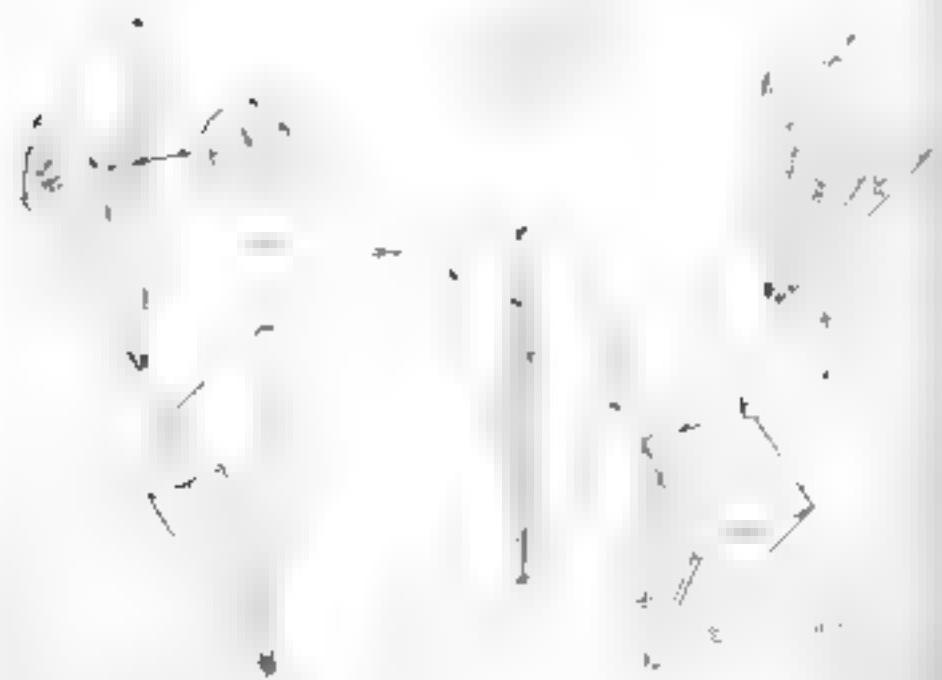


Adam and Eve

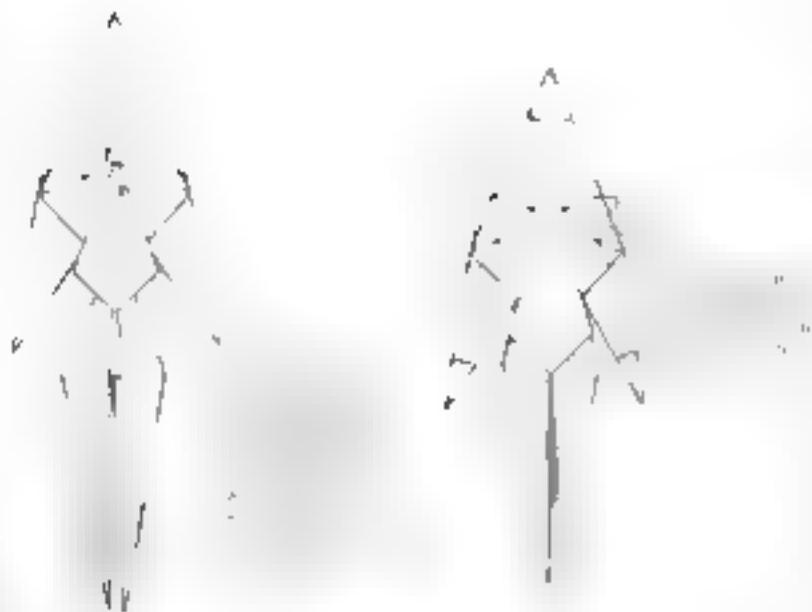


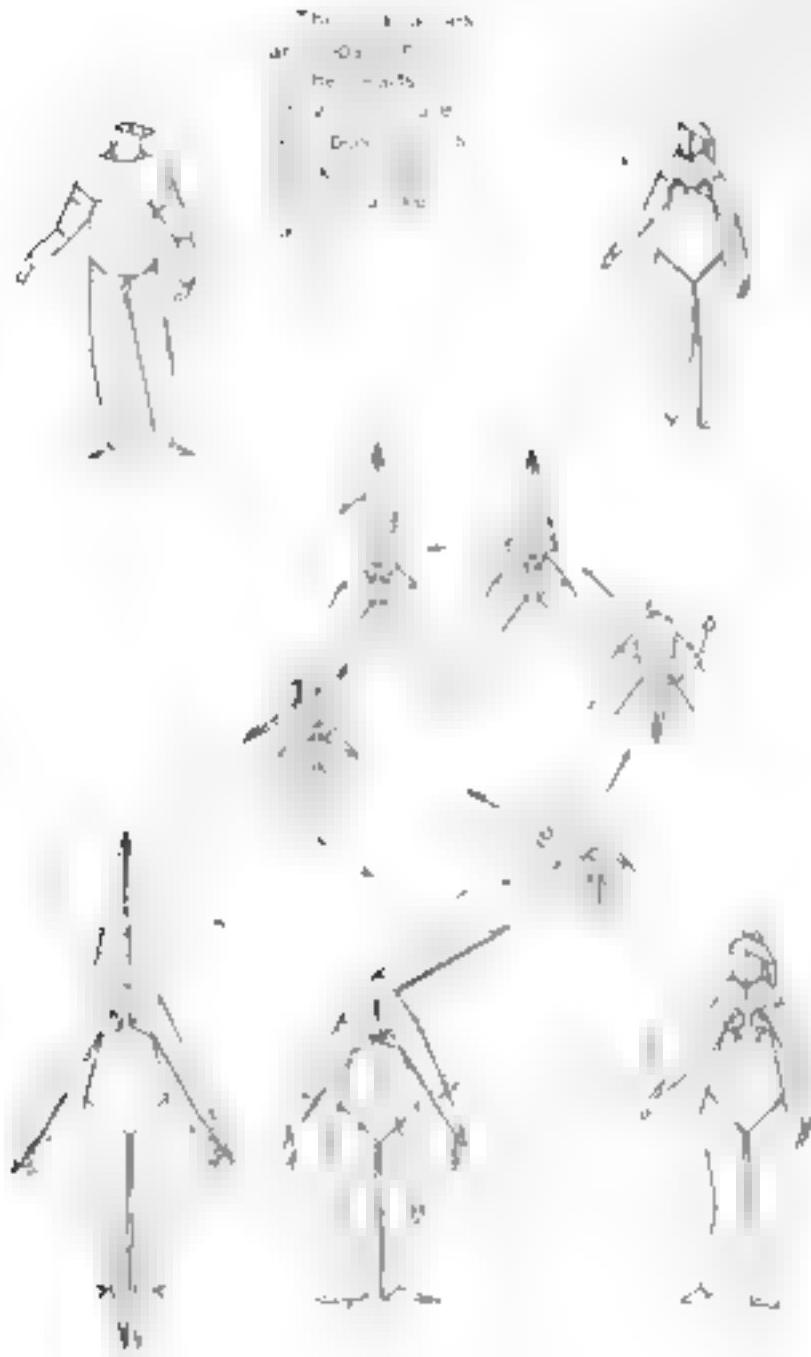
ADAM & EVE





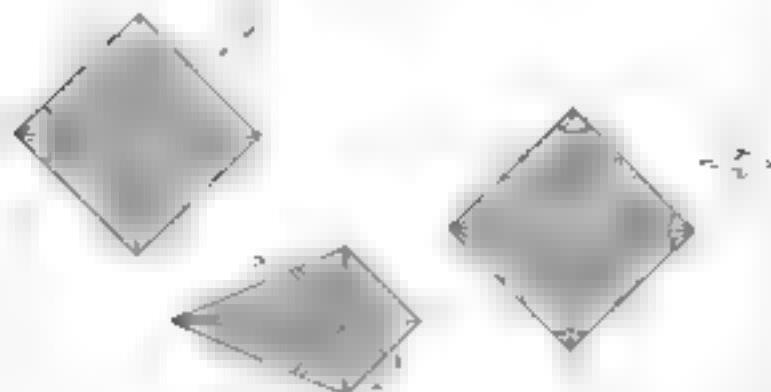
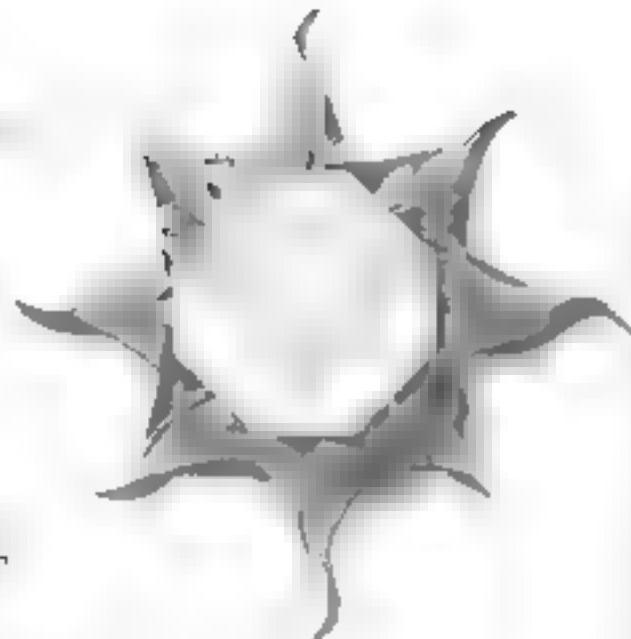


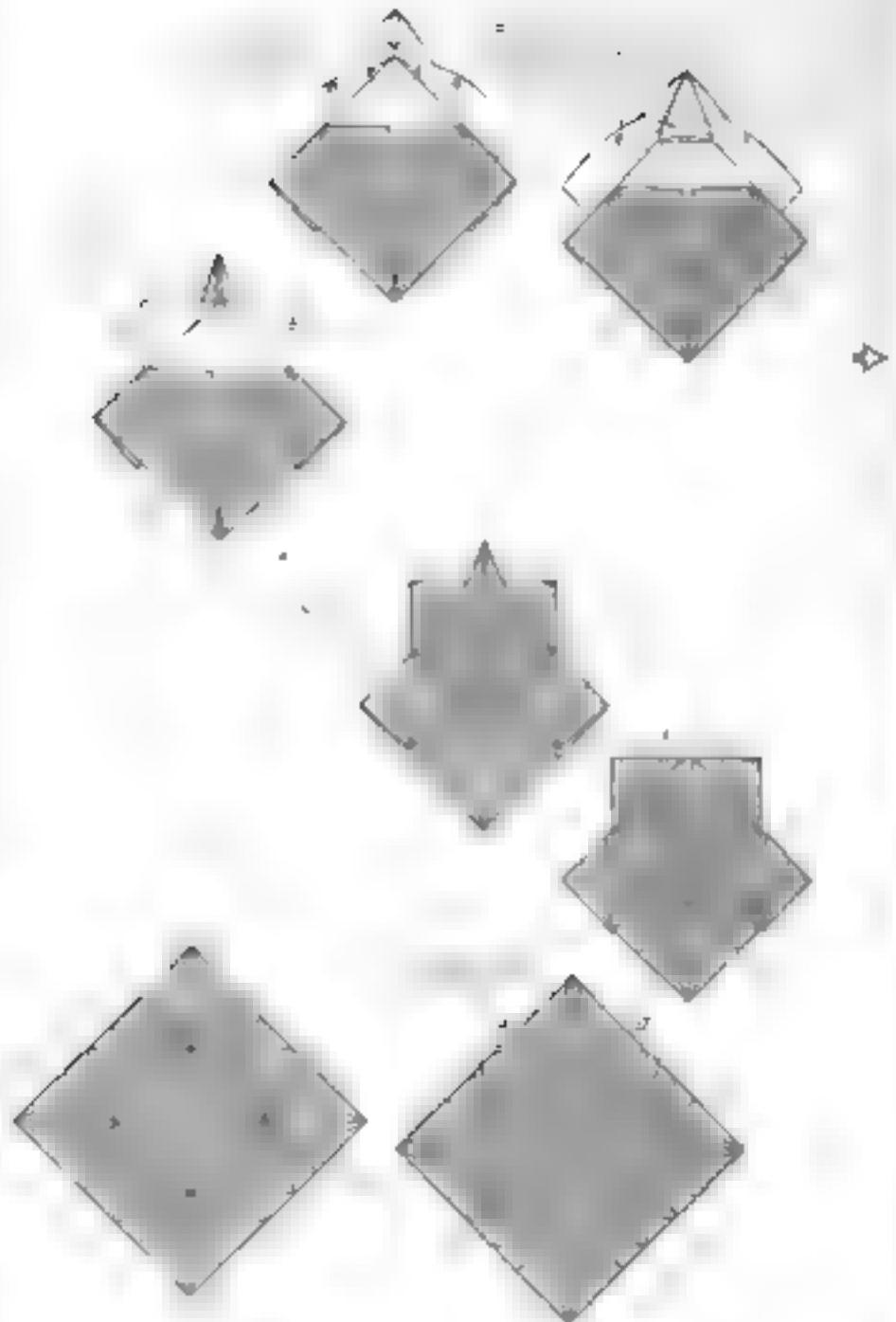


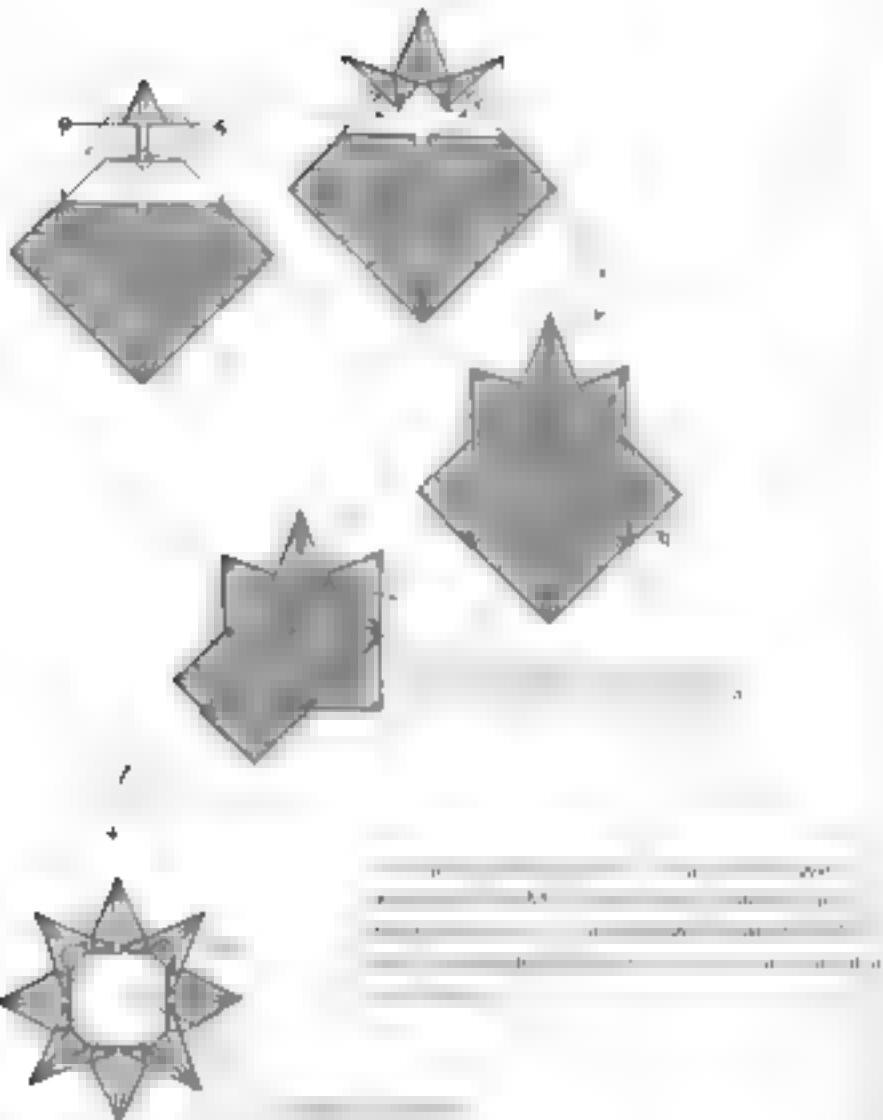


Old Sol

S 0 10 20
0 10 20

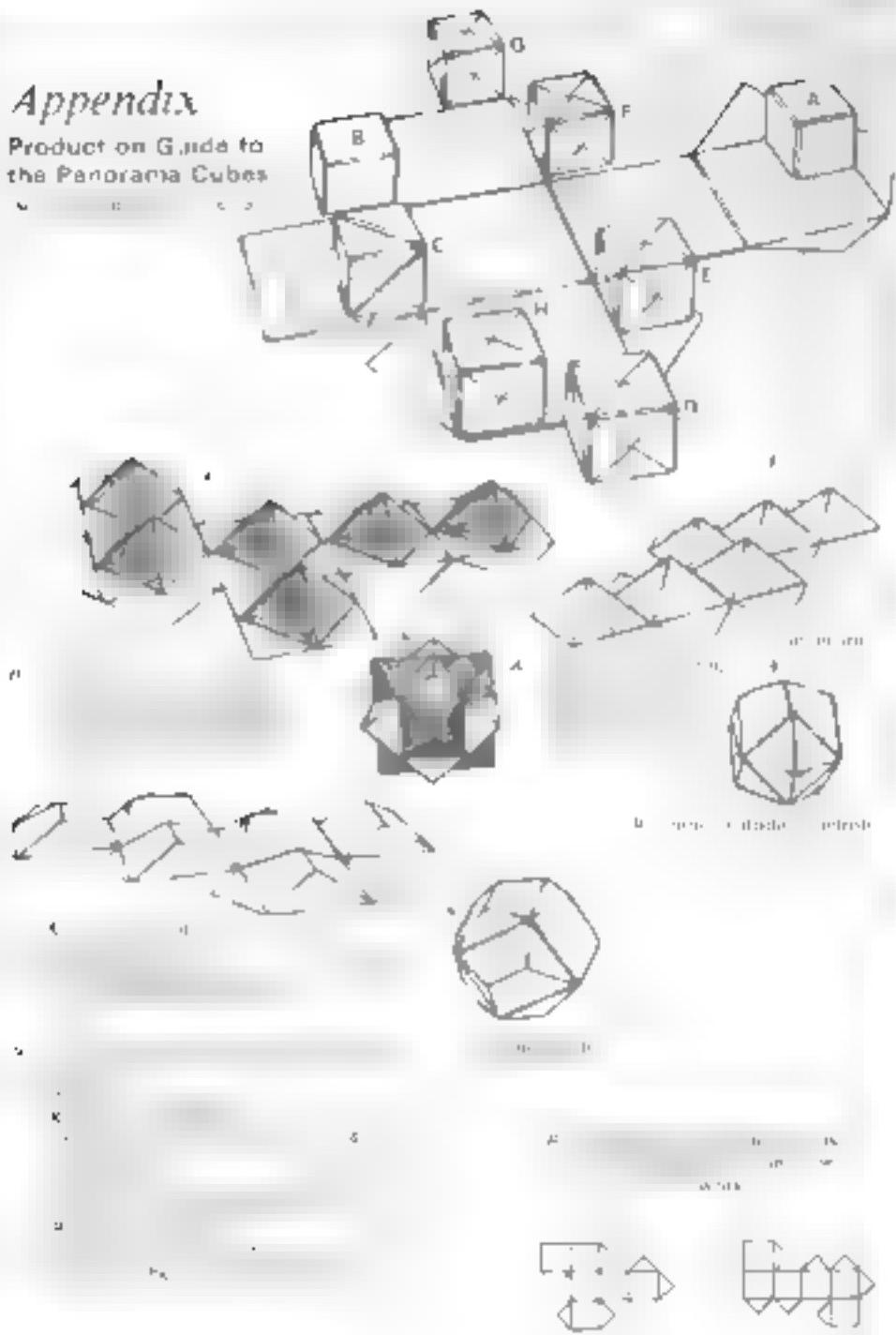


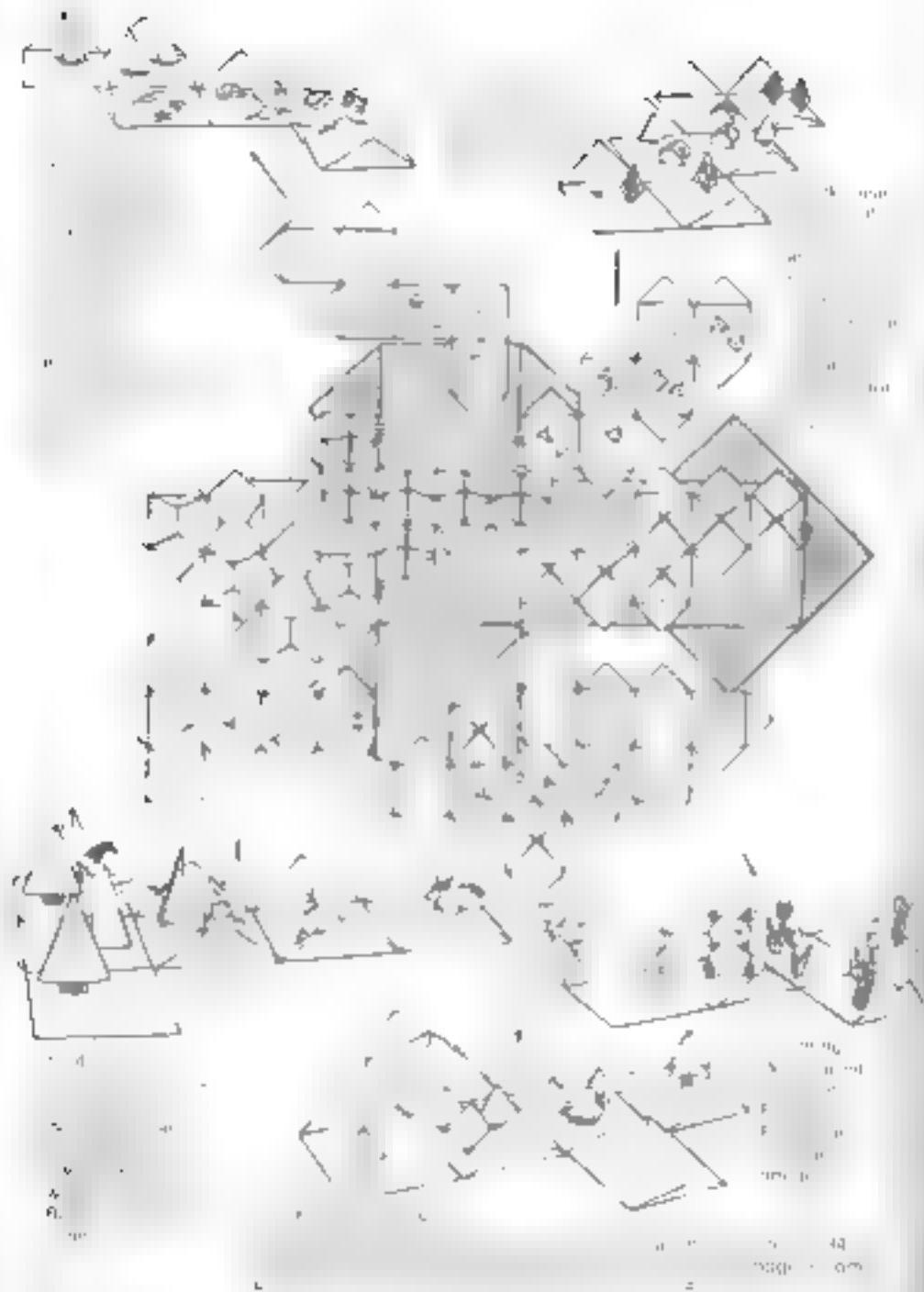


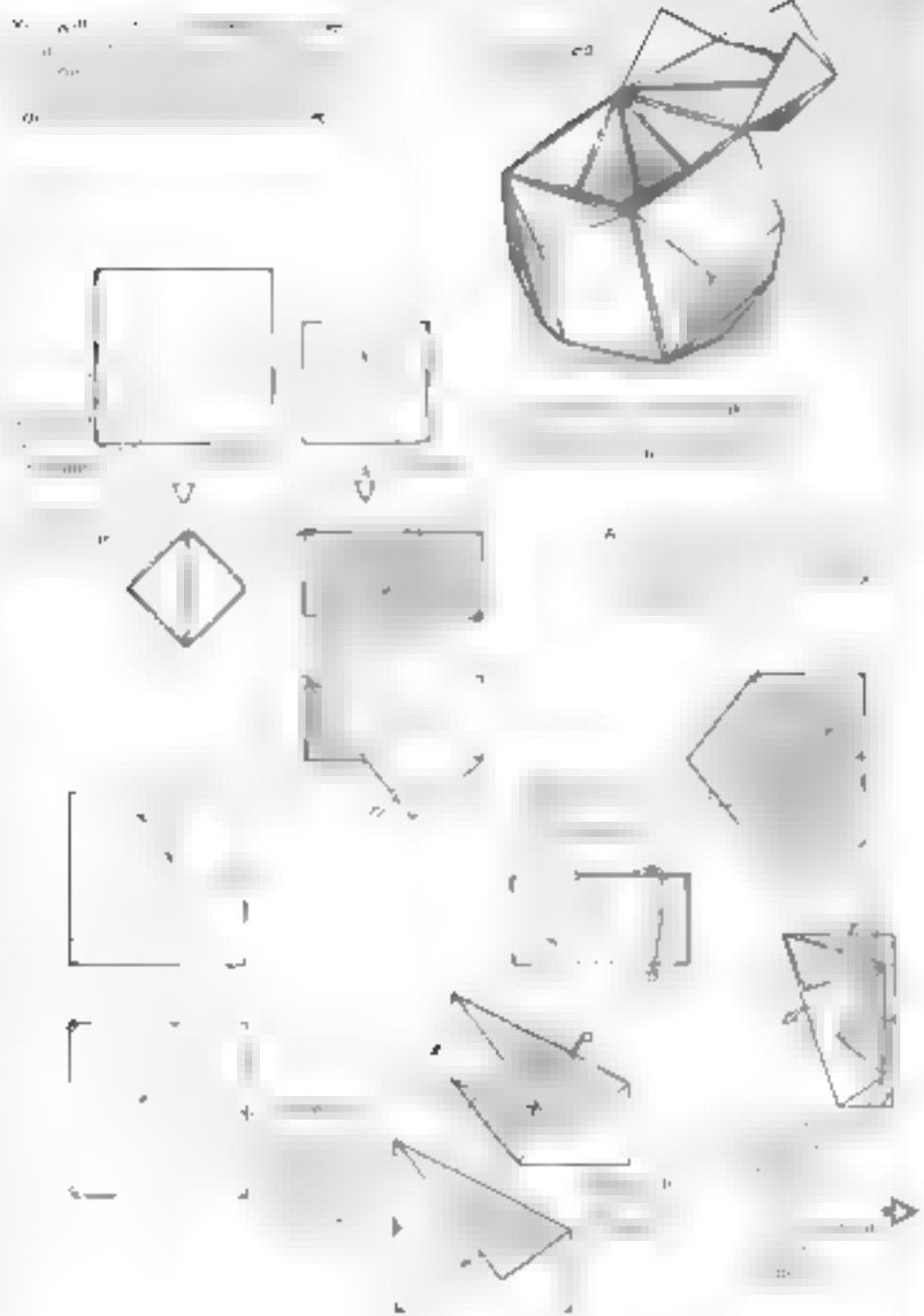


Appendix

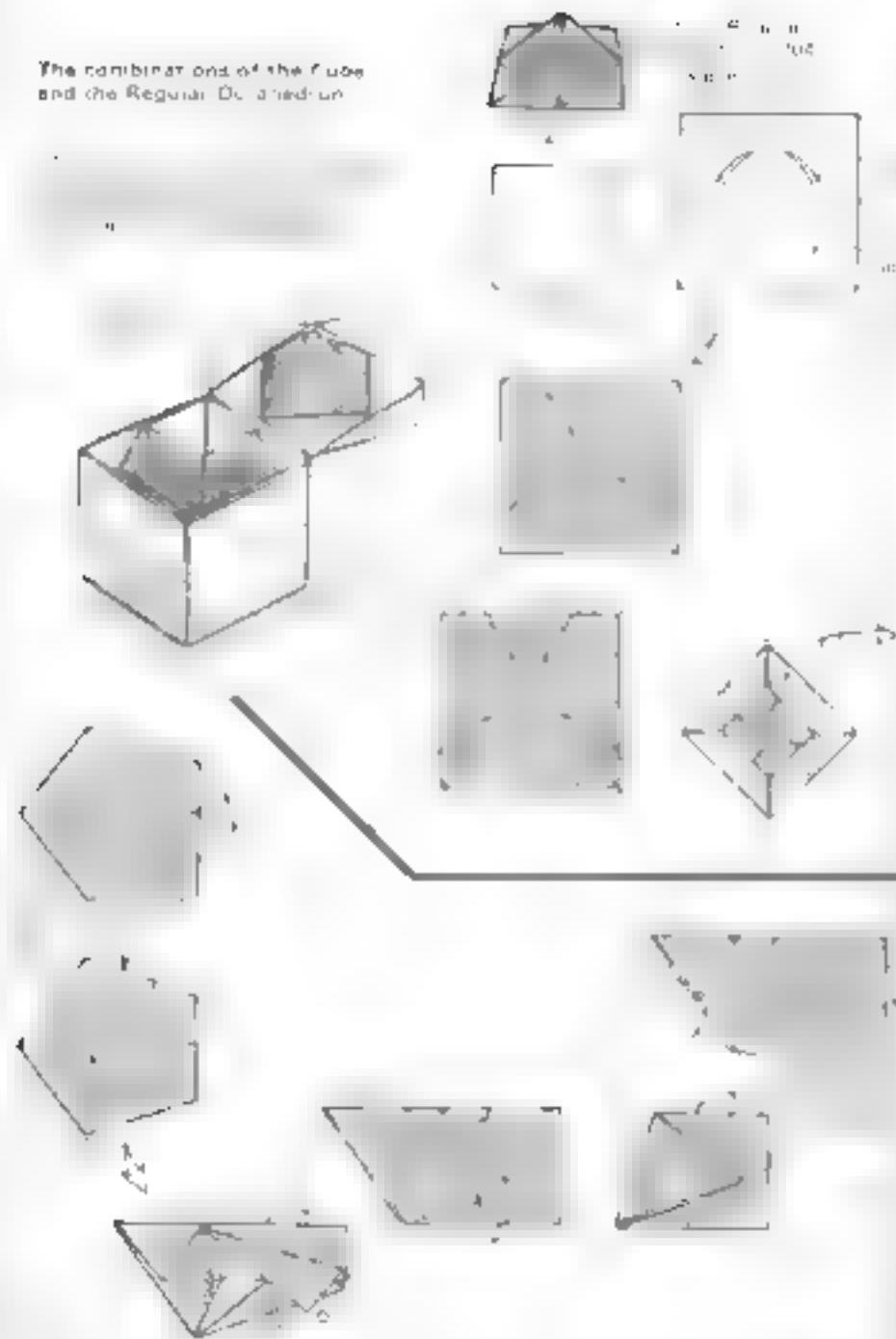
[Product Guide to the Panorama Cubes](#)

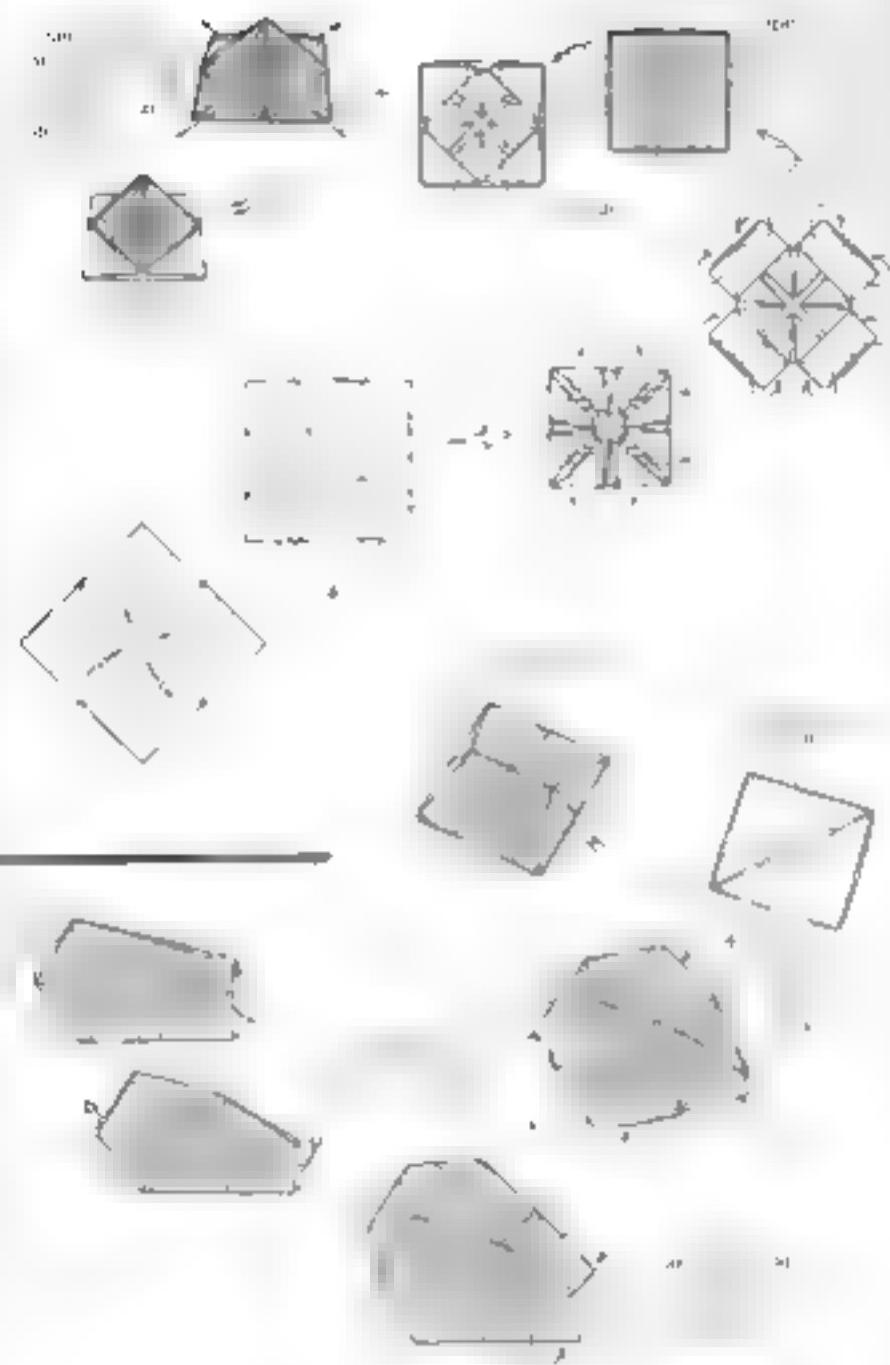




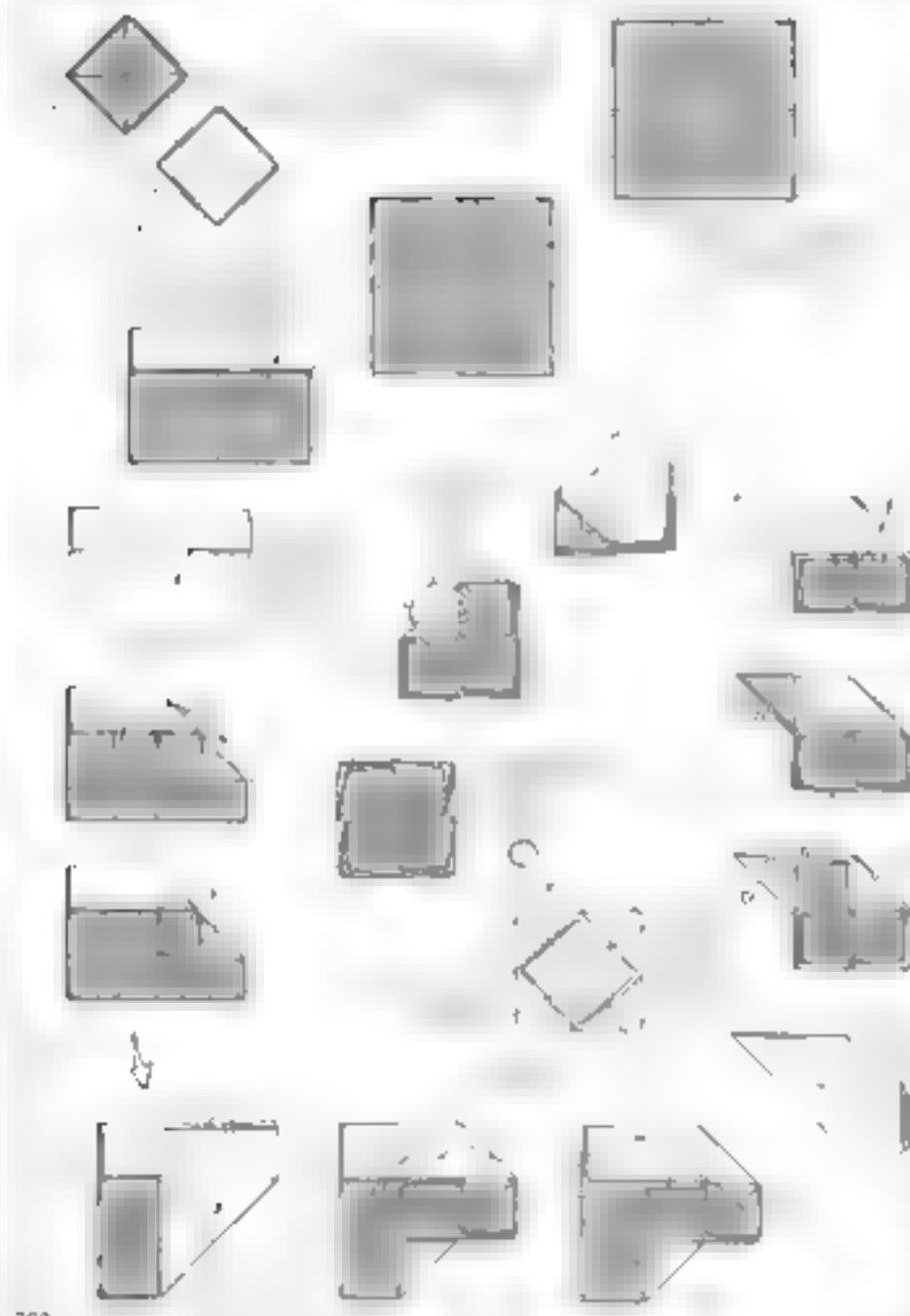


The combinations of the Cube
and the Regular Dodecahedron





Square Flat N = 3



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